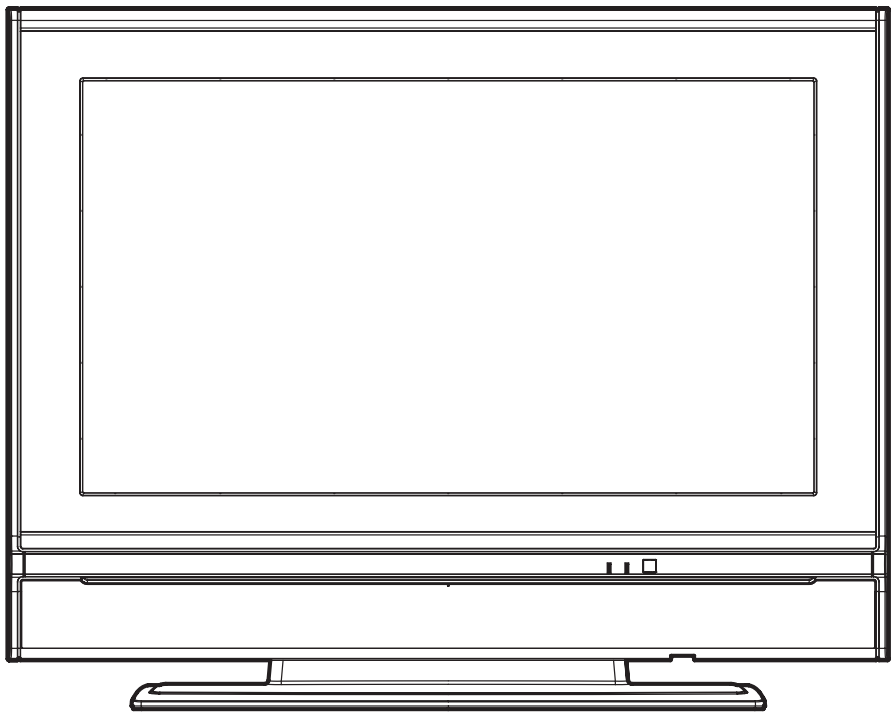
SYLVANIA

SERVICE MANUAL

26″ COLOR LCD TELEVISION

LC260SS8



IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.

It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

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The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

SPECIFICATIONS

< TUNER / NTSC >

ANT. Input ---------- 75 ohm Unbal., F type

Description	Condition	Unit	Nominal	Limit
1. AFT Pull-in Range	---	MHz	±2.3	±2.1
2. Syncronizing Sens.	ch.4 ch.10 ch.41	dBμ dBμ dBμ	--- --- ---	20 20 23

< TUNER / ATSC >

Description	Condition	Unit	Nominal	Limit
1. Received Freq. Range (-28dBm)	---	kHz	---	±100
2. ATSC Dynamic Range (min / max)	ch.4 ch.10 ch.41	dBm dBm dBm	--- --- ---	-76/0 -76/0 -74/+4

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Native Pixel Resolusion	Horizontal Vertical	pixels pixels	1366 768	--- ---
2. Brightness (w / filter)	---	cd/m^2	320	---
3. Viewing Angle	Horizontal Vertical	° °	--- ---	-80 to 80 -75 to 75

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	5 5	--- ---
2. Color Temperature	--- x y	°K	12000 0.272 0.278	--- ±10% ±10%
3. Resolution (composite video)	Horizontal Vertical	line line	400 350	--- ---

< AUDIO >

All items are measured across 8 Ω load at speaker output terminal with L.P.F. / Video1 Input.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	10.0/10.0	9.0/9.0
2. Audio Distortion	500mW: Lch/Rch	%	0.5/0.5	2.0/2.0
3. Audio Freq. Response (NTSC)	–6dB: Lch –6dB: Rch	Hz Hz	--- ---	--- ---

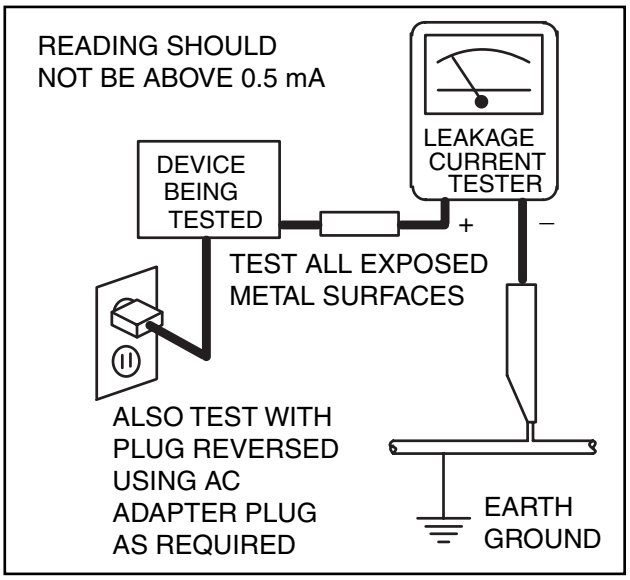
Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should a unit fail to meet limit specifications.

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer,** always make a safety check of the entire instrument, including, but not limited to, the following items:
   - **a.** Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   - **b.** Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the Liquid Crystal Panel and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   - **c. Antenna Cold Check -** With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   - **d. Leakage Current Hot Check -** With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the Liquid Crystal Panel.

3. **Design Alteration Warning -** Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.
4. **Hot Chassis Warning -**
   a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
   b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
   c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
5. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
6. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
7. **Product Safety Notice -** Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety.
Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

1) Insulation Tape
2) PVC tubing
3) Spacers
4) Insulators for transistors.

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)

G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 5~6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.

L. When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Region	Clearance Distance (d), (d')
110 to 130 V	U.S.A. or Canada	≥ 3.2 mm (0.126 inches)

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

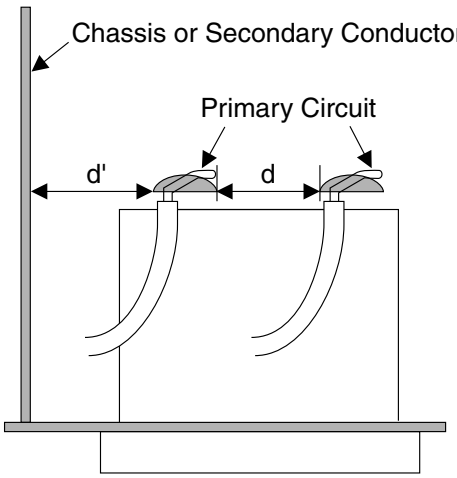


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method: (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

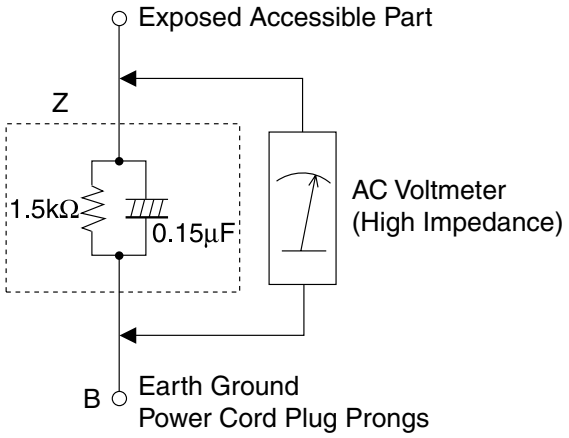


Fig. 2

Table 2: Leakage current ratings for selected areas

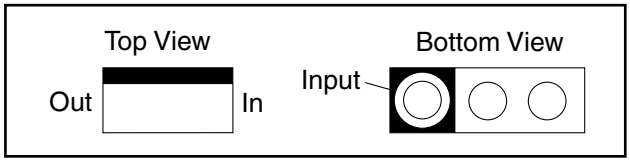
AC Line Voltage	Region	Load Z	Leakage Current (i)	Earth Ground (B) to:
110 to 130 V	U.S.A. or Canada	0.15 μF CAP. & 1.5 kΩ RES. Connected in parallel	i ≤ 0.5 mA rms	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

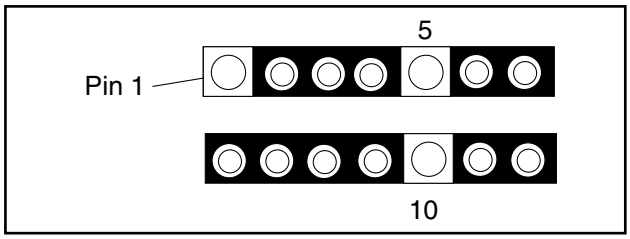
STANDARD NOTES FOR SERVICING

Circuit Board Indications

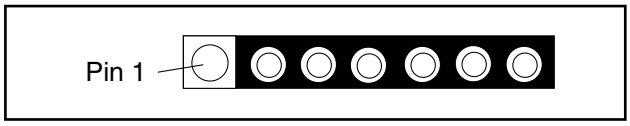
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

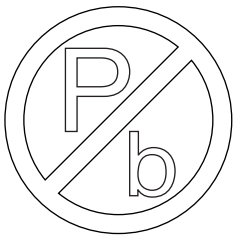


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

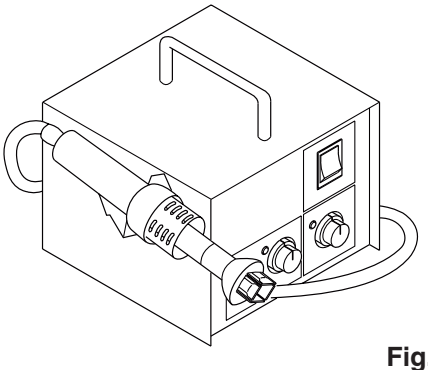


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

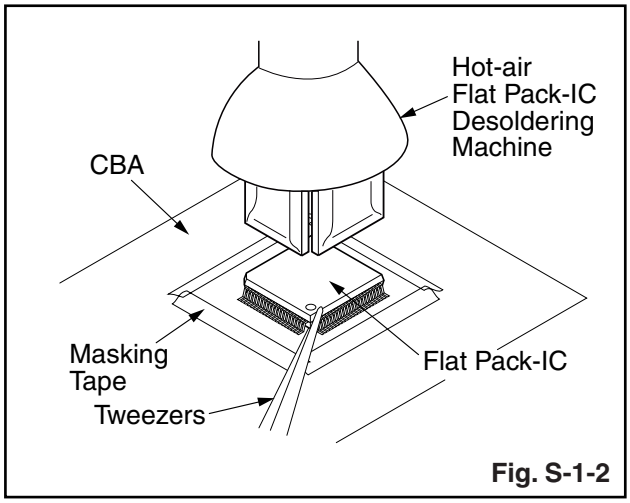


Fig. S-1-2

With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

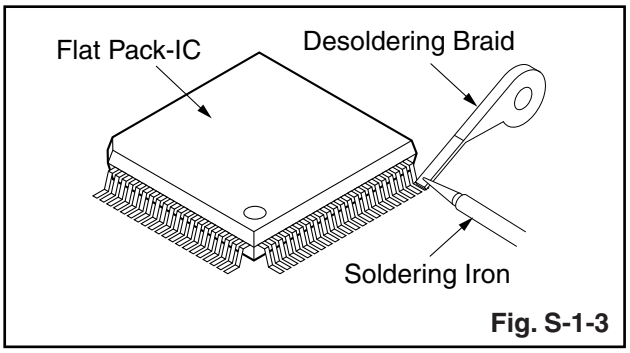


Fig. S-1-3

2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

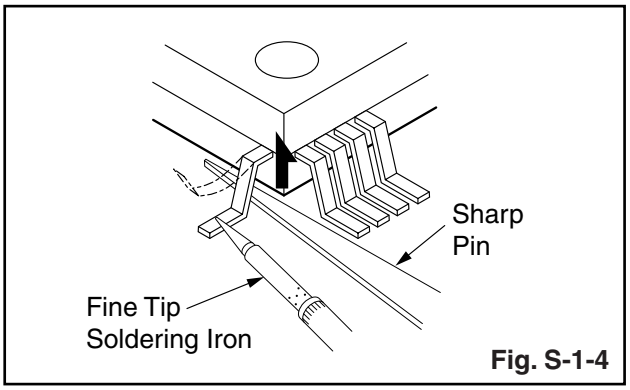


Fig. S-1-4

3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

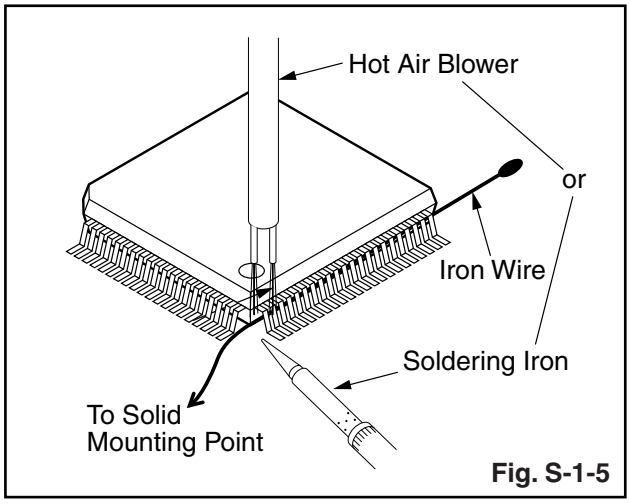


Fig. S-1-5

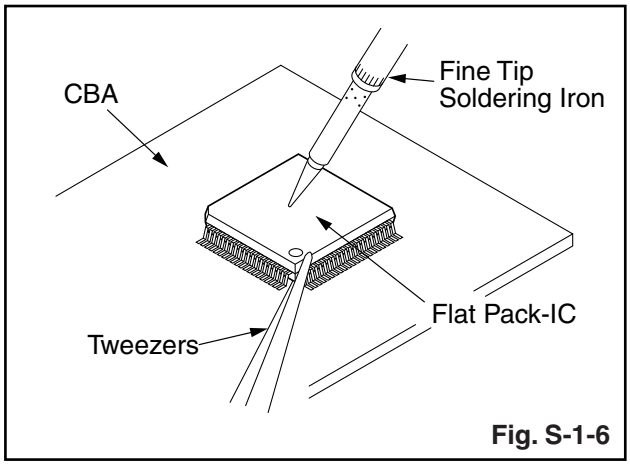


Fig. S-1-6

2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

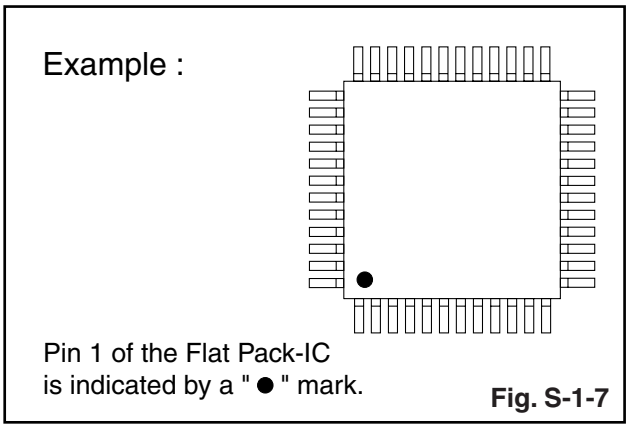


Fig. S-1-7

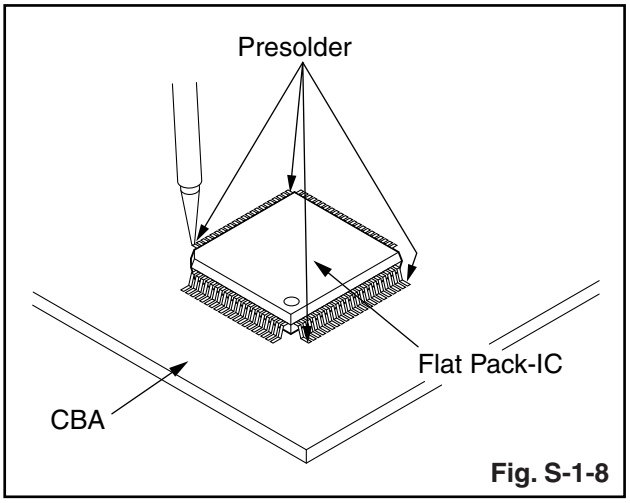


Fig. S-1-8

Instructions for Handling Semi-conductors

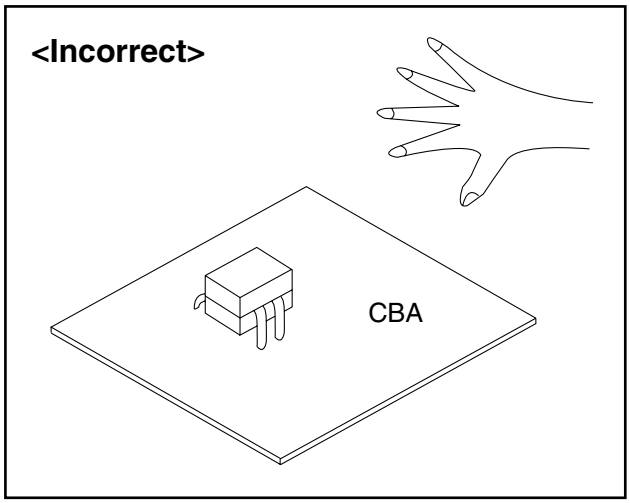
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

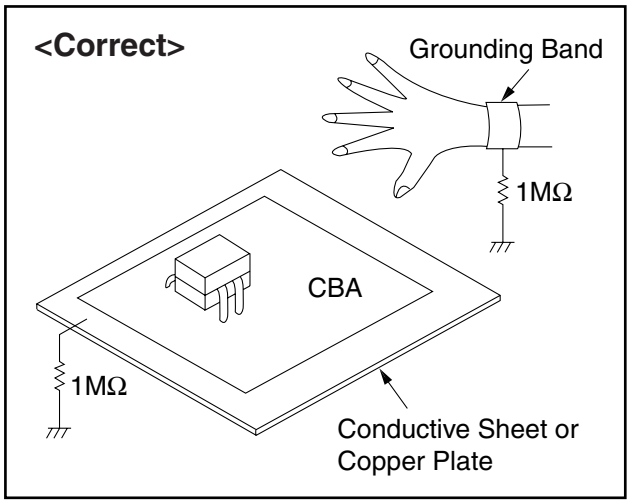
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

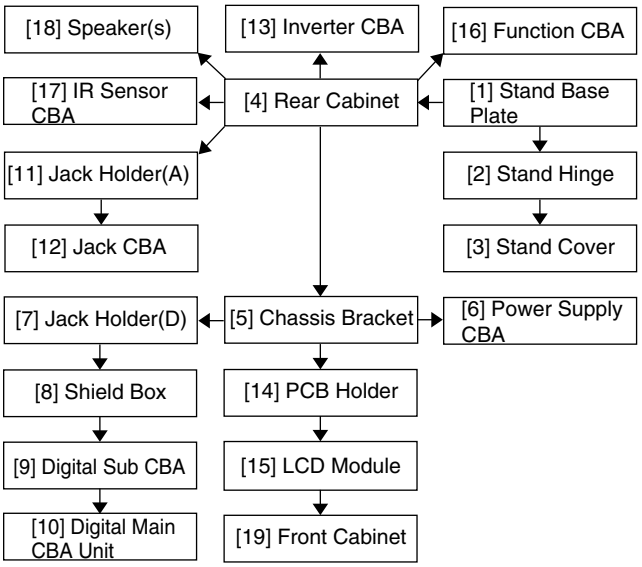




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



2. Disassembly Method

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Stand Base Plate	D1	4(S-1), 6(S-2), 5(S-3)	---
[2]	Stand Hinge	D1	----------	---
[3]	Stand Cover	D1	----------	---
[4]	Rear Cabinet	D1	11(S-4), 4(S-5)	---
[5]	Chassis Bracket	D2	8(S-6)	---
[6]	Power Supply CBA	D2 D5	4(S-7), *CN101B, *CN501, *CN801, *CN802, *CN3010, *CN3014	---
[7]	Jack Holder(D)	D2	(S-8), 2(S-9), 2(S-10), (N-1), Earth Plate	---
[8]	Shield Box	D2	4(S-11), *CN3001	---
[9]	Digital Sub CBA	D2 D5	*CN1, *A, *B, *C, *D	---
[10]	Digital Main CBA Unit	D2 D5	*CN3002, *CN3007, *CN3018	---
[11]	Jack Holder(A)	D3	(S-12)	---
[12]	Jack CBA	D3 D5	5(S-13)	---
[13]	Inverter CBA	D3 D5	5(S-14), *CN553	---
[14]	PCB Holder	D3	8(S-15), 8(S-16)	---
[15]	LCD Module	D3	----------	---
[16]	Function CBA	D4 D5	3(S-17)	---
[17]	IR Sensor CBA	D4 D5	2(S-18)	---
[18]	Speaker(s)	D4	8(S-19)	---
[19]	Front Cabinet	D4	----------	---
		↓ (3)	↓ (4)	↓ (5)

Note:

(1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.

(2) Parts to be removed or installed.

(3) Fig. No. showing procedure of part location

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
N = Nut, L = Locking Tab, S = Screw,
CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5) Refer to the following "Reference Notes in the Table."

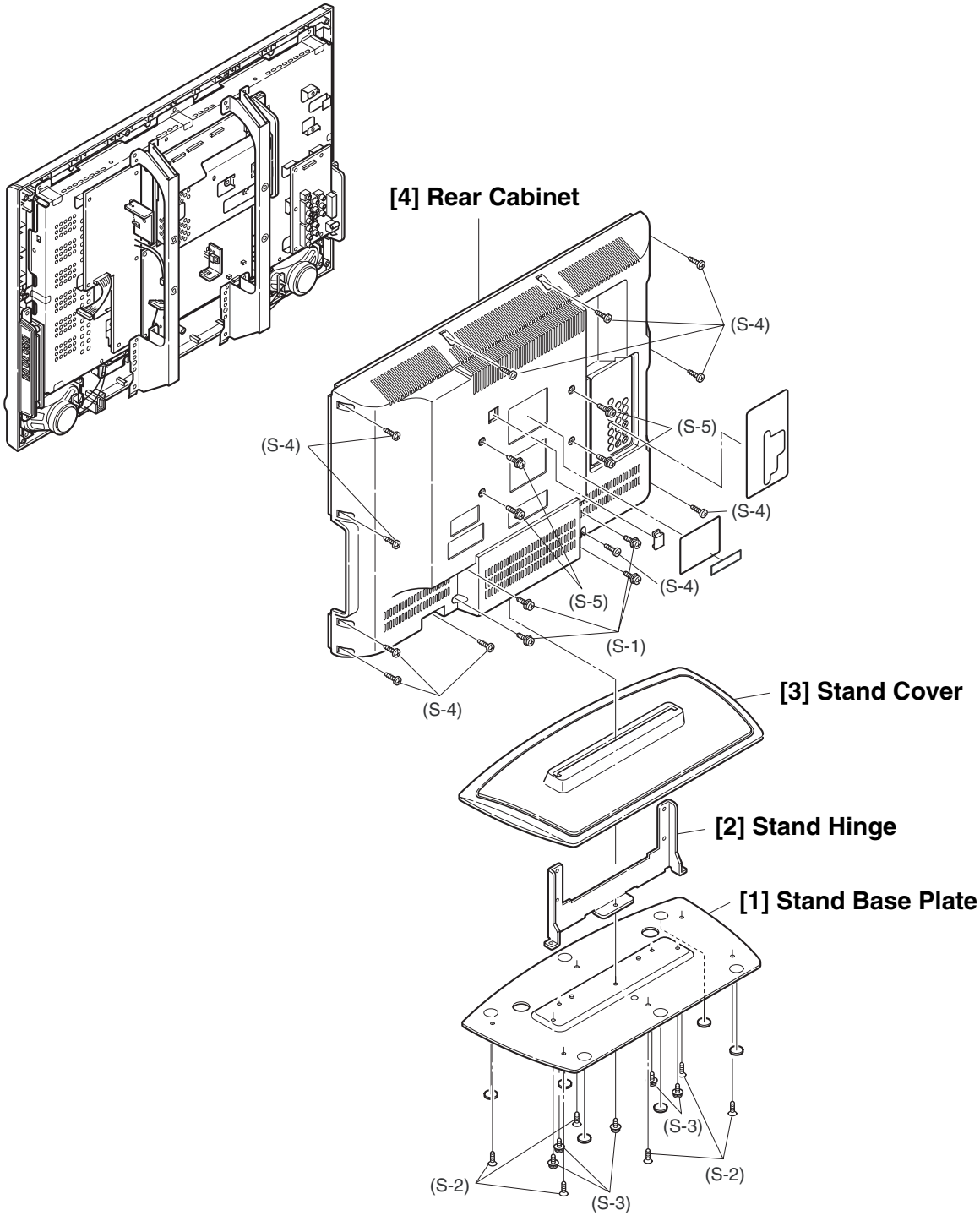

[4] Rear Cabinet
(S-4)
(S-4)
(S-5)
(S-4)
(S-4)
(S-5)
(S-1)
(S-4)
[3] Stand Cover
[2] Stand Hinge
[1] Stand Base Plate
(S-3)
(S-2)
(S-2)
(S-3)

Fig. D1

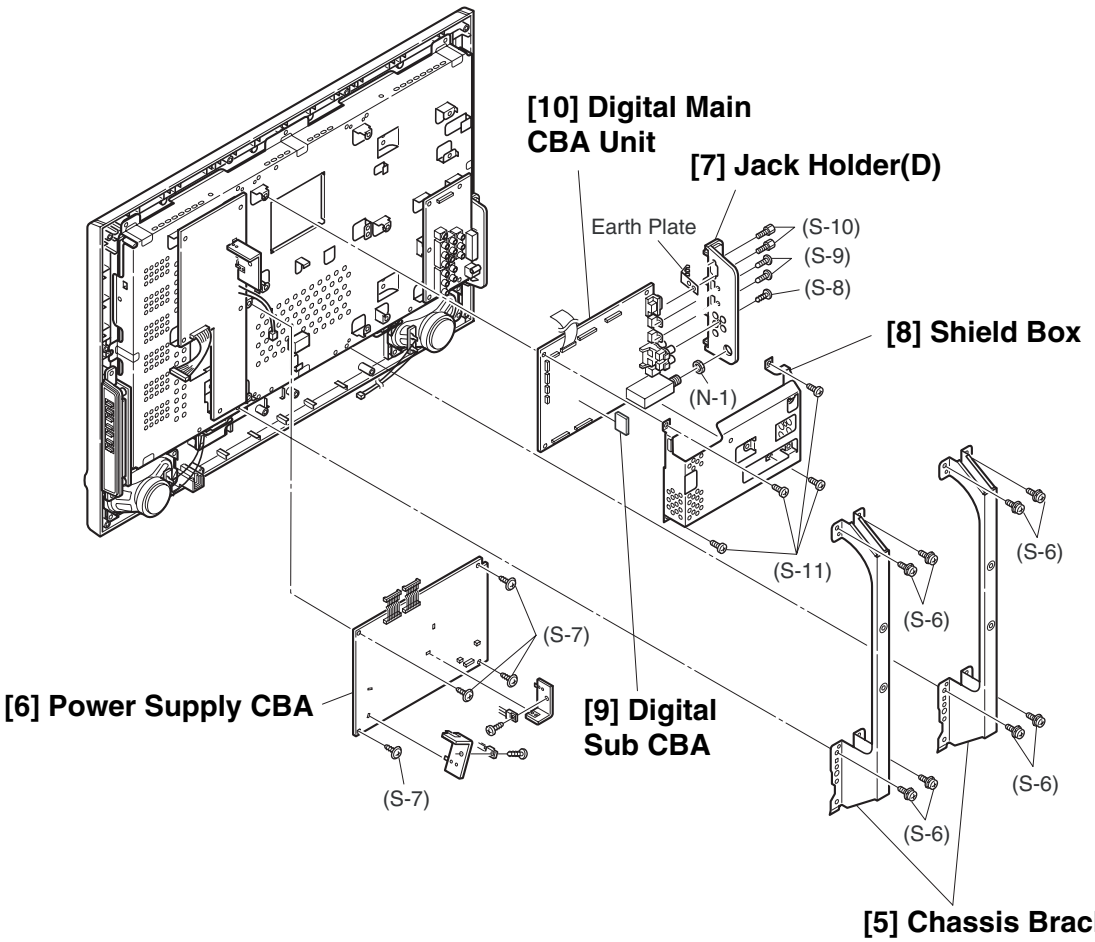

[10] Digital Main CBA Unit
[7] Jack Holder(D)
Earth Plate
(S-10)
(S-9)
(S-8)
[8] Shield Box
(N-1)
(S-11)
(S-6)
(S-6)
(S-6)
(S-6)
(S-7)
(S-7)
[6] Power Supply CBA
[9] Digital Sub CBA
[5] Chassis Bracket

Fig. D2

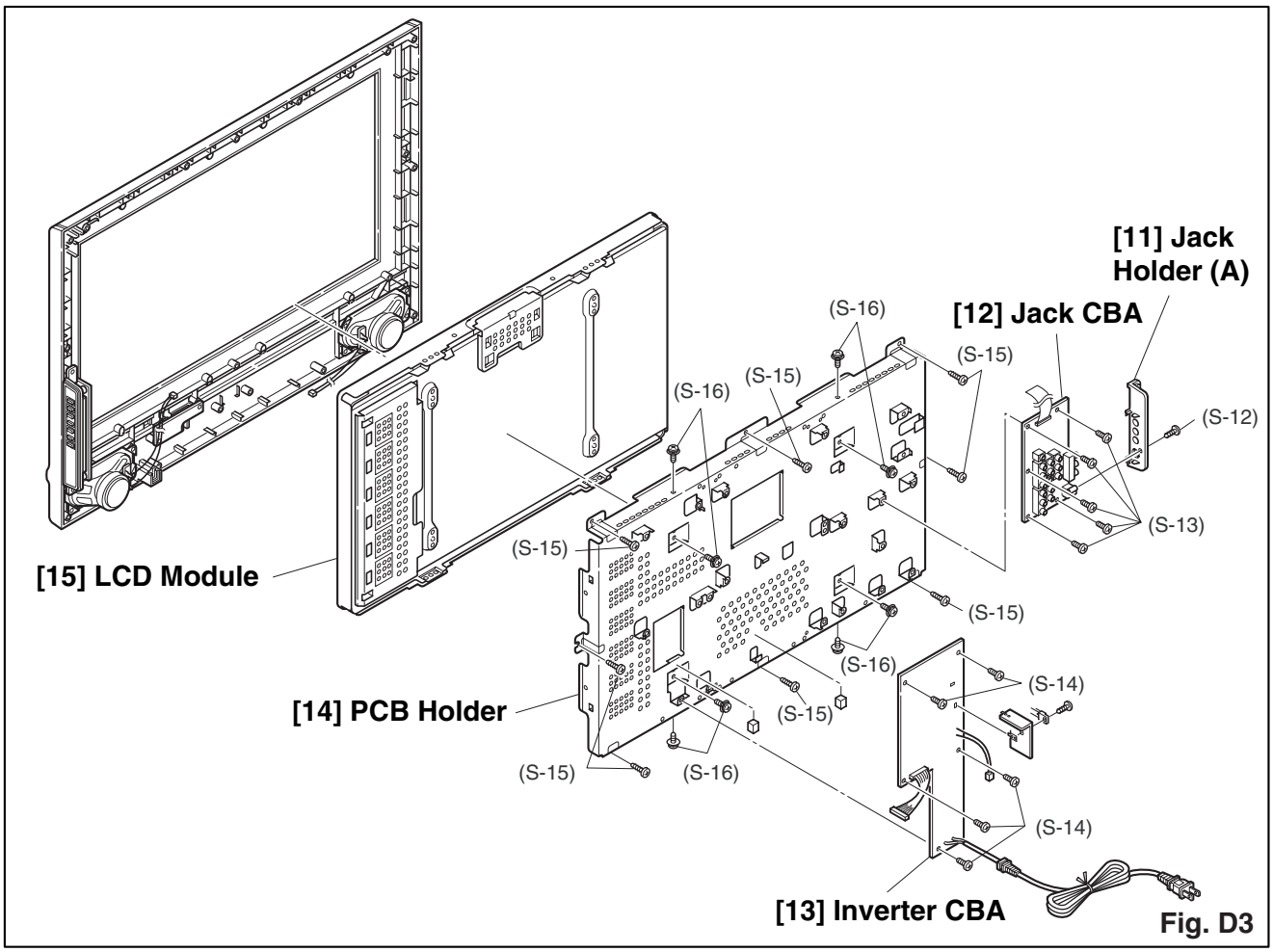

[11] Jack Holder (A)
[12] Jack CBA
(S-16)
(S-15)
(S-16)
(S-15)
(S-12)
(S-13)
[15] LCD Module
(S-15)
(S-15)
(S-16)
[14] PCB Holder
(S-14)
(S-15)
(S-15)
(S-16)
(S-14)
[13] Inverter CBA

Fig. D3

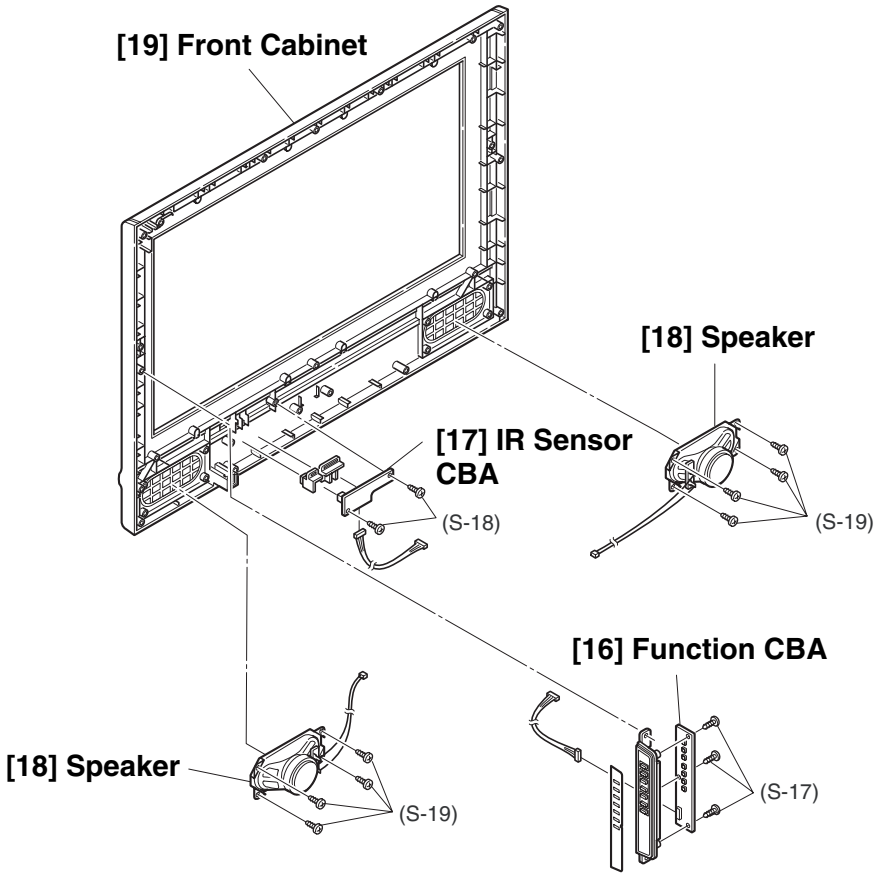

[19] Front Cabinet
[18] Speaker
[17] IR Sensor CBA
(S-18)
(S-19)
[16] Function CBA
[18] Speaker
(S-19)
(S-17)

Fig. D4

TV Cable Wiring Diagram

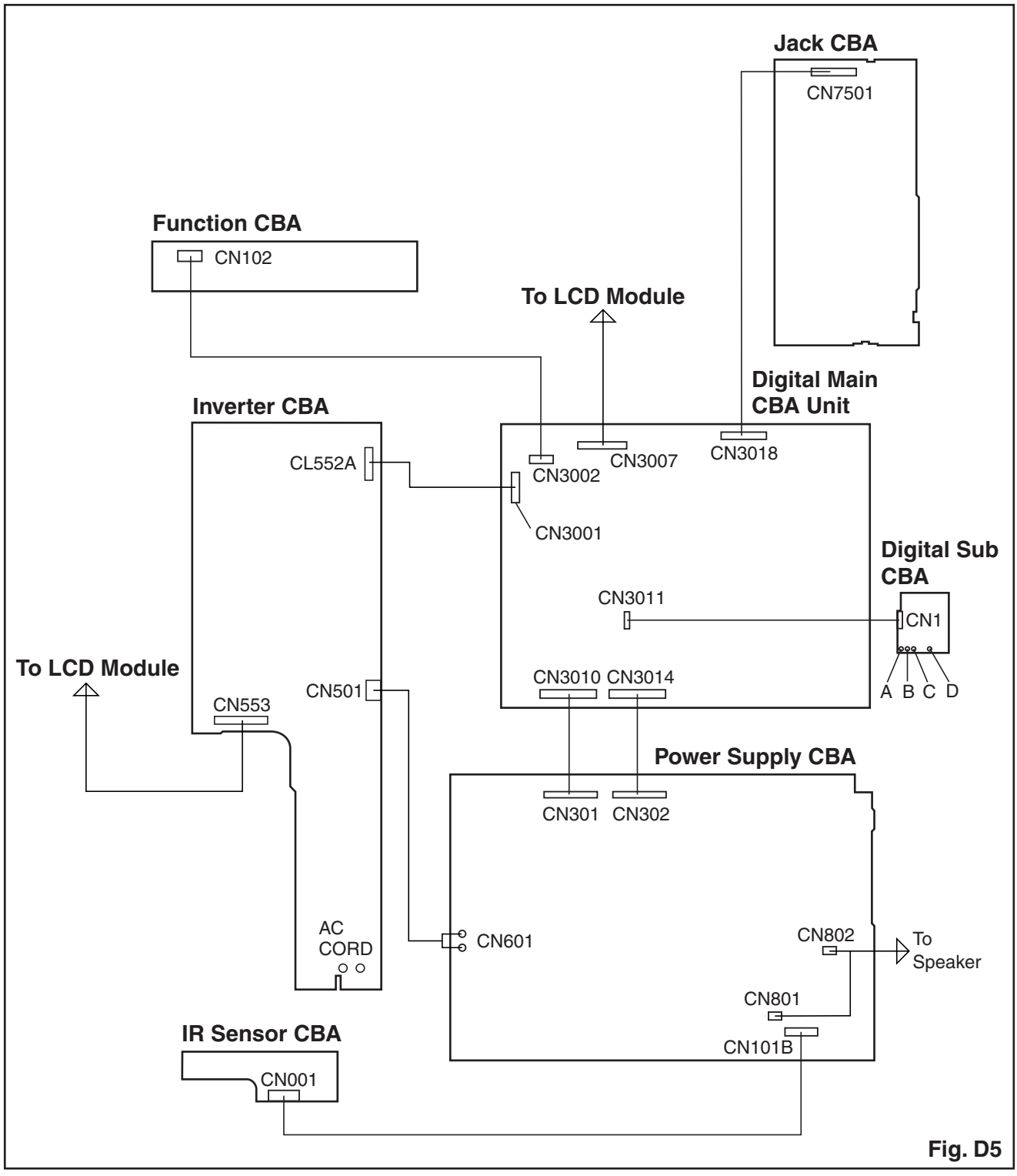


Fig. D5

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: “CBA” is abbreviation for “Circuit Board Assembly.”

Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.
Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. DC Voltmeter
2. NTSC Pattern Generator (Color Bar W/White Window, Red Color, Dot Pattern, Gray Scale, Monoscope, Multi-Burst)
3. Remote control unit
4. Color Analyzer

How to make the Service remote control unit:

Cut “A” portion of the attached remote control unit as shown in Fig. 1.

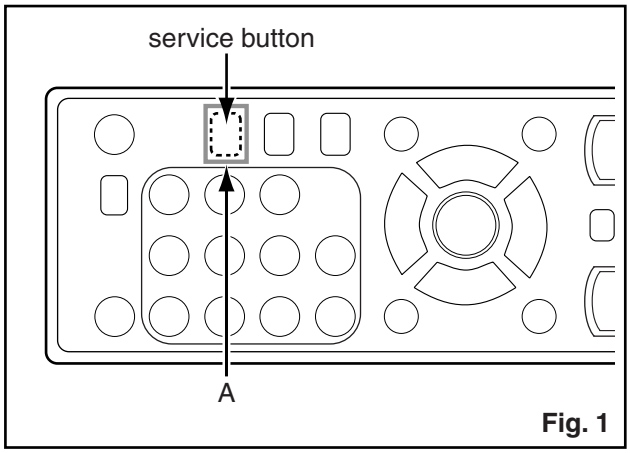


Fig. 1

How to set up the service mode:

Service mode:

1. Use the service remote control unit.
2. Turn the power on.
3. Press the service button on the service remote control unit. The following screen appears.

"⁎" differs depending on the models.

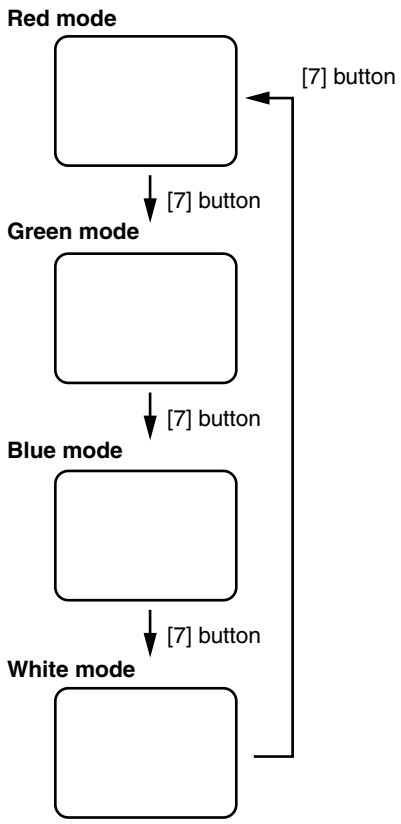
```
Ver :      **********************
Boot             Push 0 key
System           Push 0 key
Pic Ver : **********************
          **********************
Picture :        Push 0 key
Submicon Ver :   ******
```

1. Purity Check Mode

This mode cycles through full-screen displays of red, green, blue, and white to check for non-active pixels.

1. Enter the Service mode.
2. Each time pressing [7] button on the service remote control unit, the display changes as follows.

Purity Check Mode



Note:
When entering this mode, the default setting is White mode.

The following adjustment normally are not attempted in the field. Only when replacing the LCD Panel then adjust as a preparation.

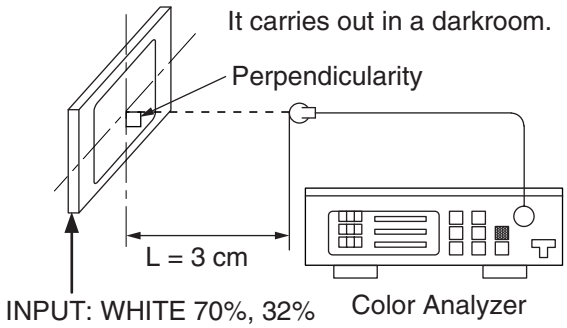
2. White Balance Adjustment

Purpose: To mix red, green and blue beams correctly for pure white.

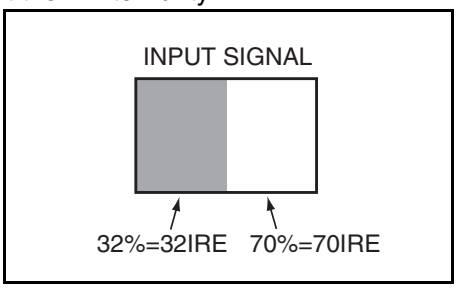
Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[CH. ▲/▼] buttons	**[RF/VIDEO1, 2]** C/D	White Purity (APL 70%) or (APL 32%)
M. EQ.		**Spec.**	
Pattern Generator, Color analyzer		x= 0.272 ± 0.005 y= 0.278 ± 0.005	

Figure



1. Operate the unit for more than 20 minutes.
2. Input the White Purity.



3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. Enter the Service mode. Press [VOL. ▽] button on the remote control unit and select “C/D” mode.

5. **[CUTOFF]**
   Press [3] button to select “COB” for Blue Cutoff adjustment. Press [1] button to select “COR” for Red Cutoff adjustment.
   [DRIVE]
   Press [6] button to select “DB” for Blue Drive adjustment. Press [4] button to select “DR” for Red Drive adjustment.
6. In each color mode, press [CH. ▲ / ▼] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 12000K (x= 0.272 / y= 0.278 ±0.005).

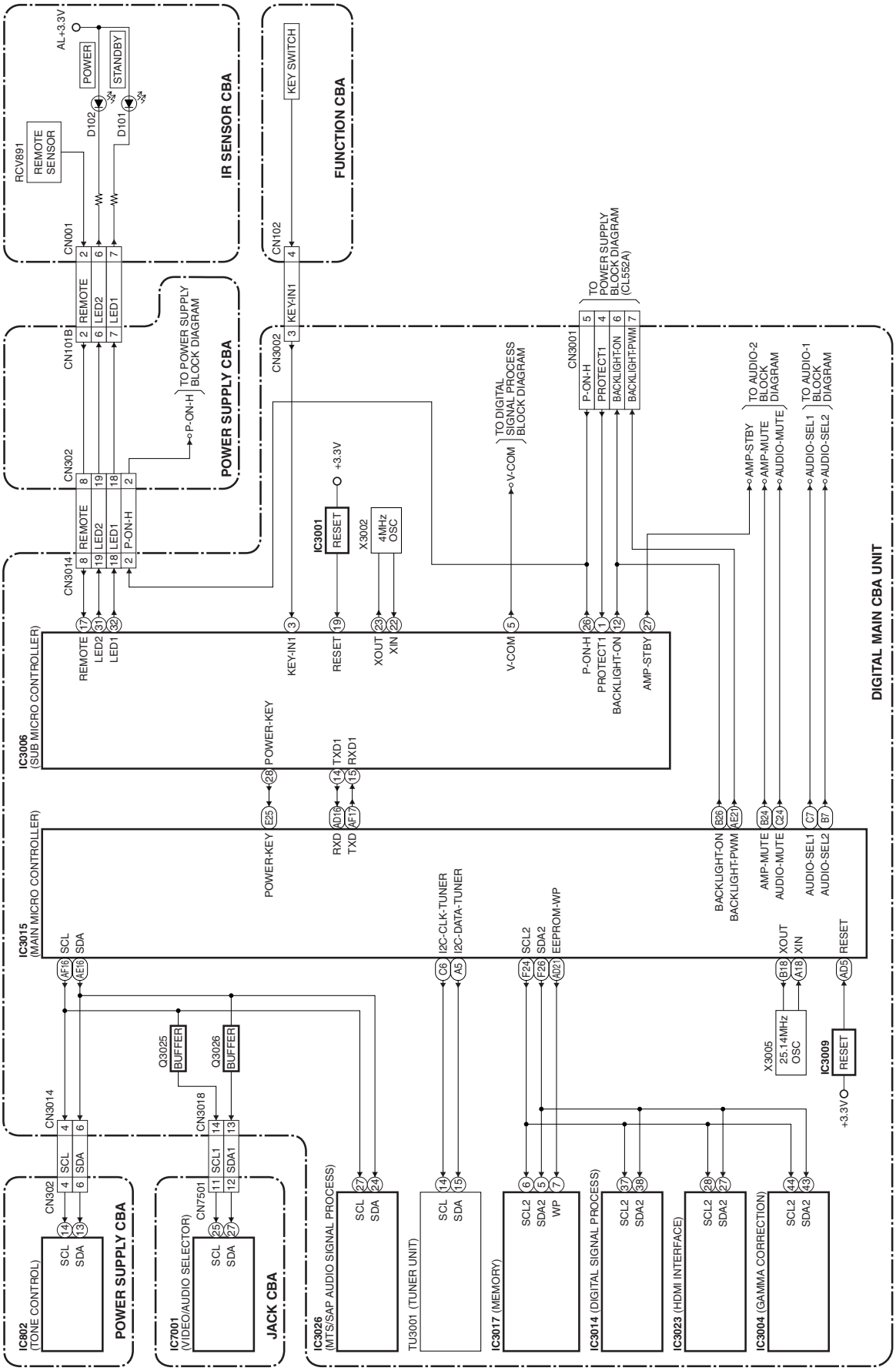
HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

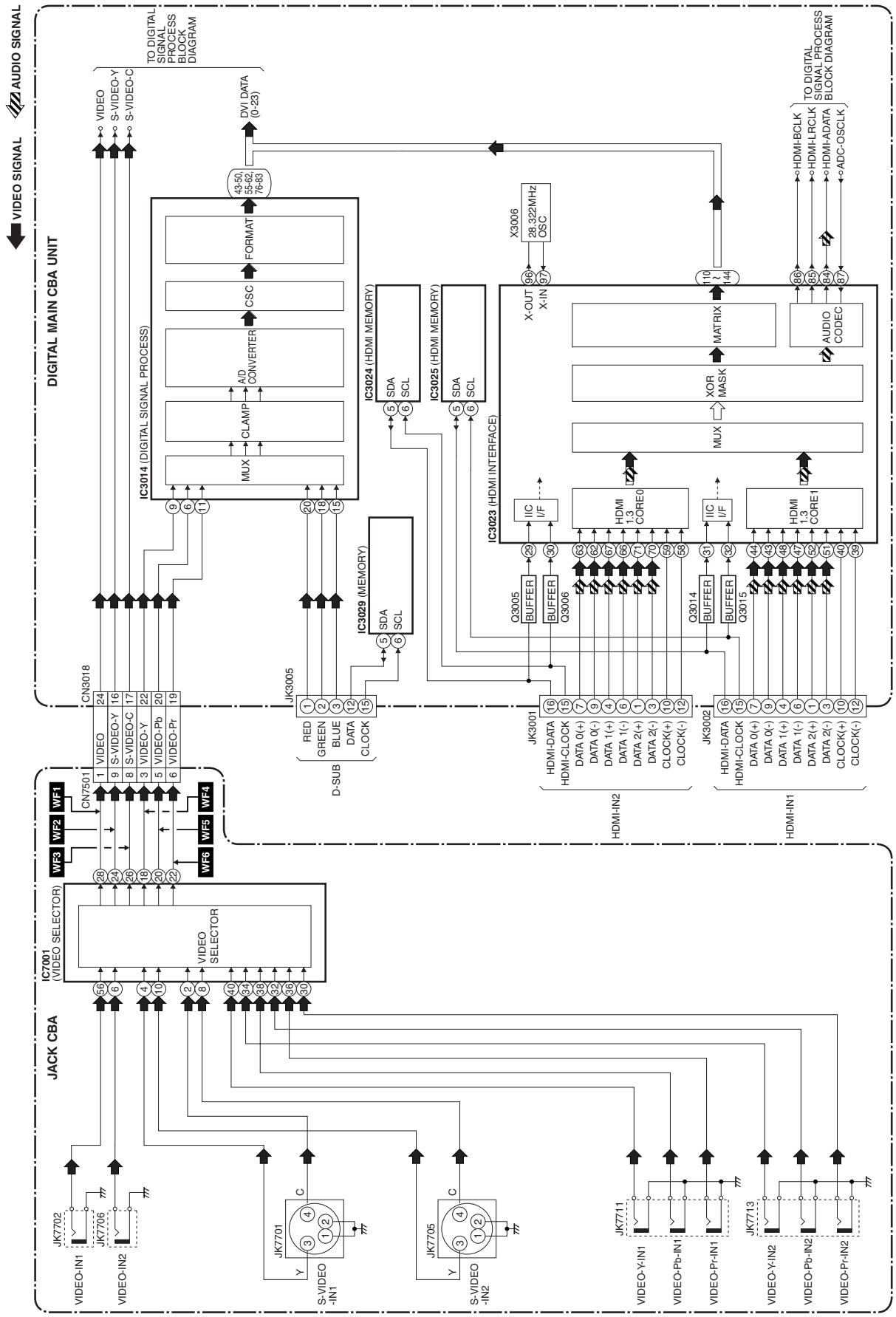
1. Turn the power on.
2. To enter the service mode, press the service button on the service remote control unit. (Refer to page 5-1.)
   - To cancel the service mode, press [POWER] button on the remote control unit.
3. Press [INFO] button on the remote control unit to initialize the LCD television.
4. "INITIALIZED" will appear in the upper right of the screen. "INITIALIZED" color will change to green from red when initialzing is complete.

BLOCK DIAGRAMS

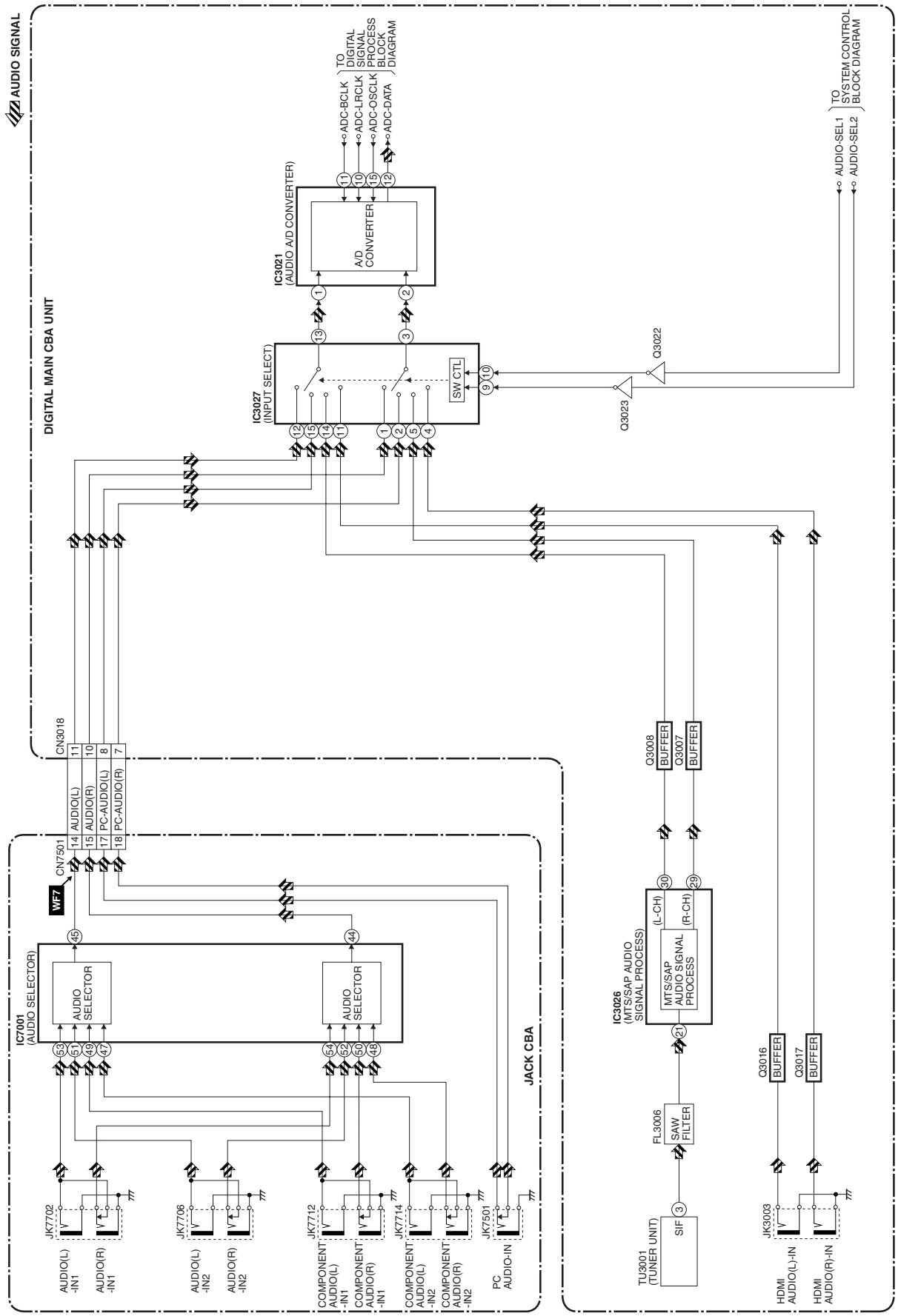
System Control Block Diagram



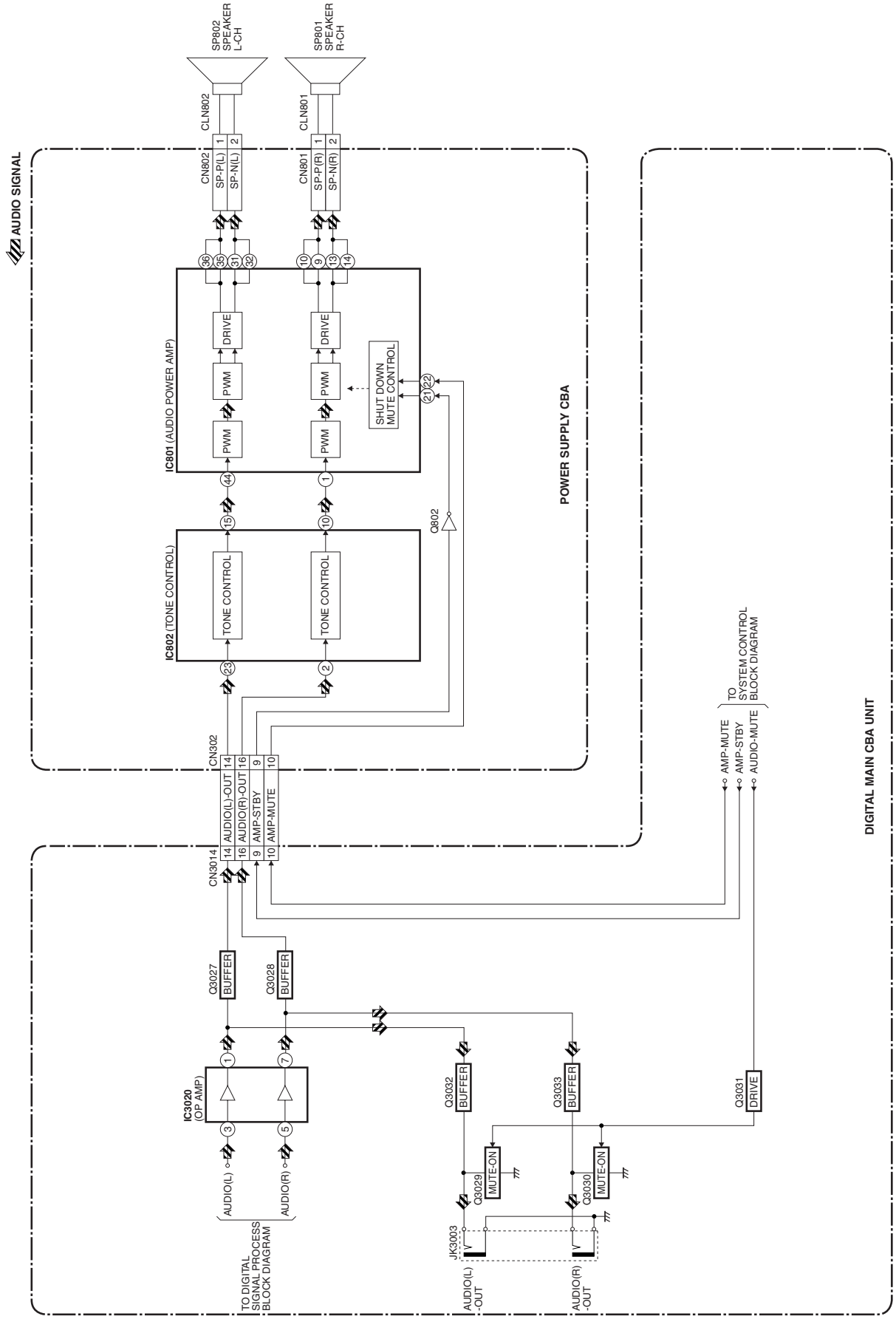
Video Block Diagram



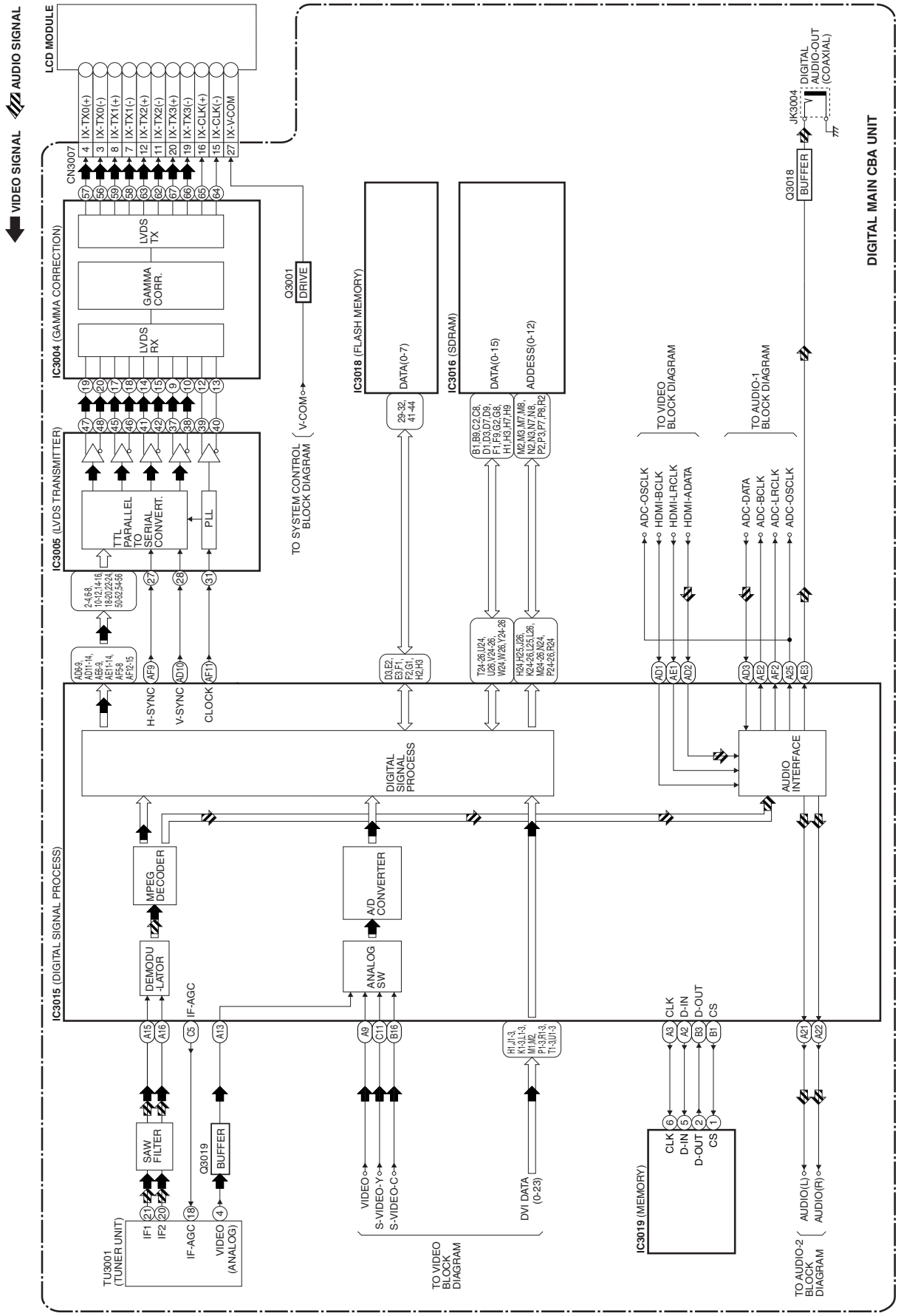
Audio-1 Block Diagram



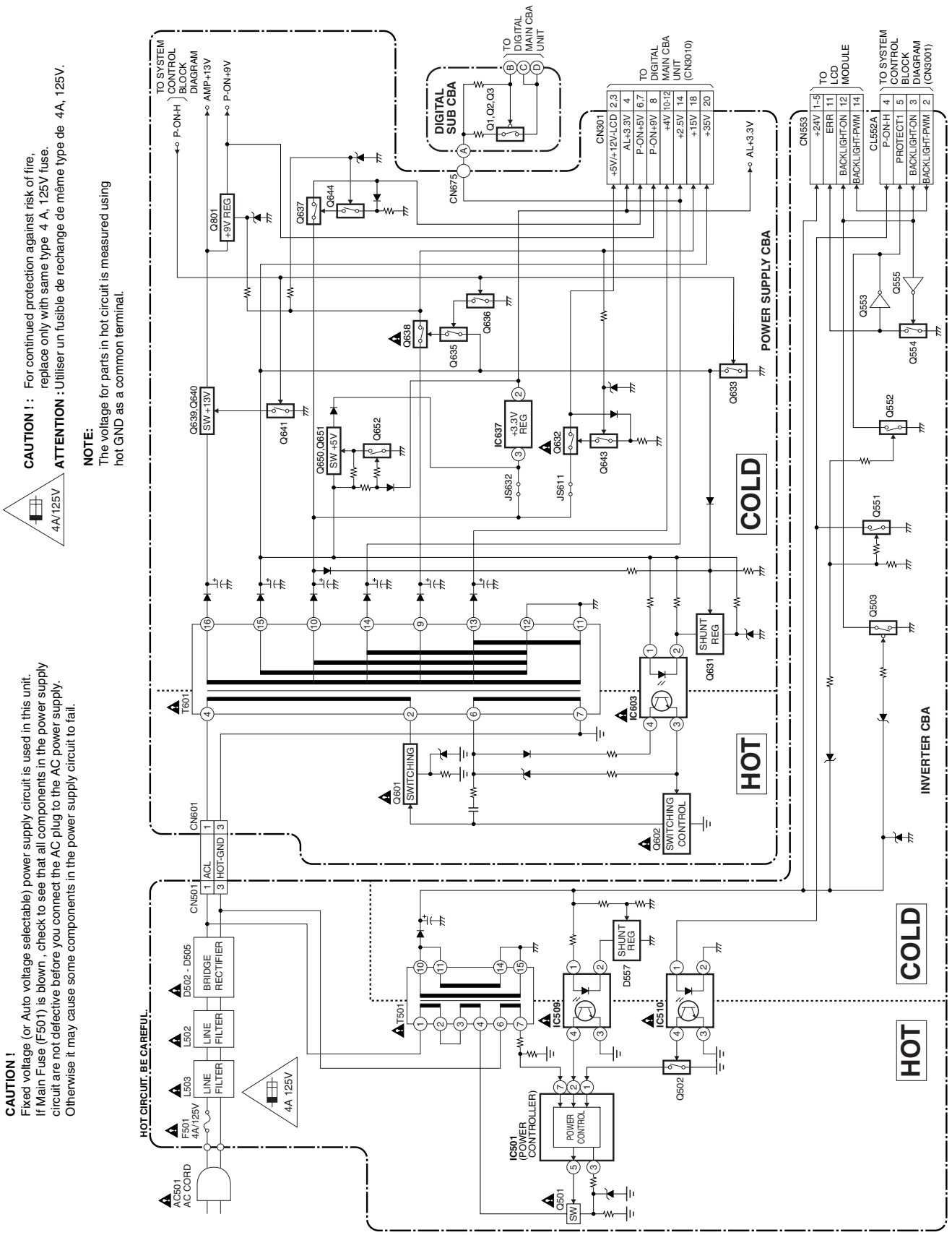
Audio-2 Block Diagram



Digital Signal Process Block Diagram



Power Supply Block Diagram



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "⚠" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE_A,_V FUSE.

ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE_A,_V.

2. CAUTION:

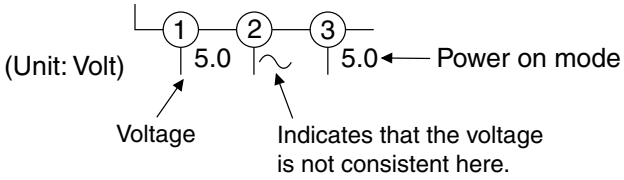
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F501) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

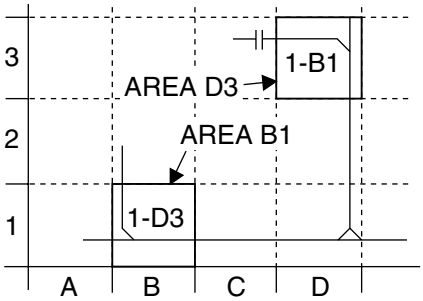
4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:



5. How to read converged lines

Examples:
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

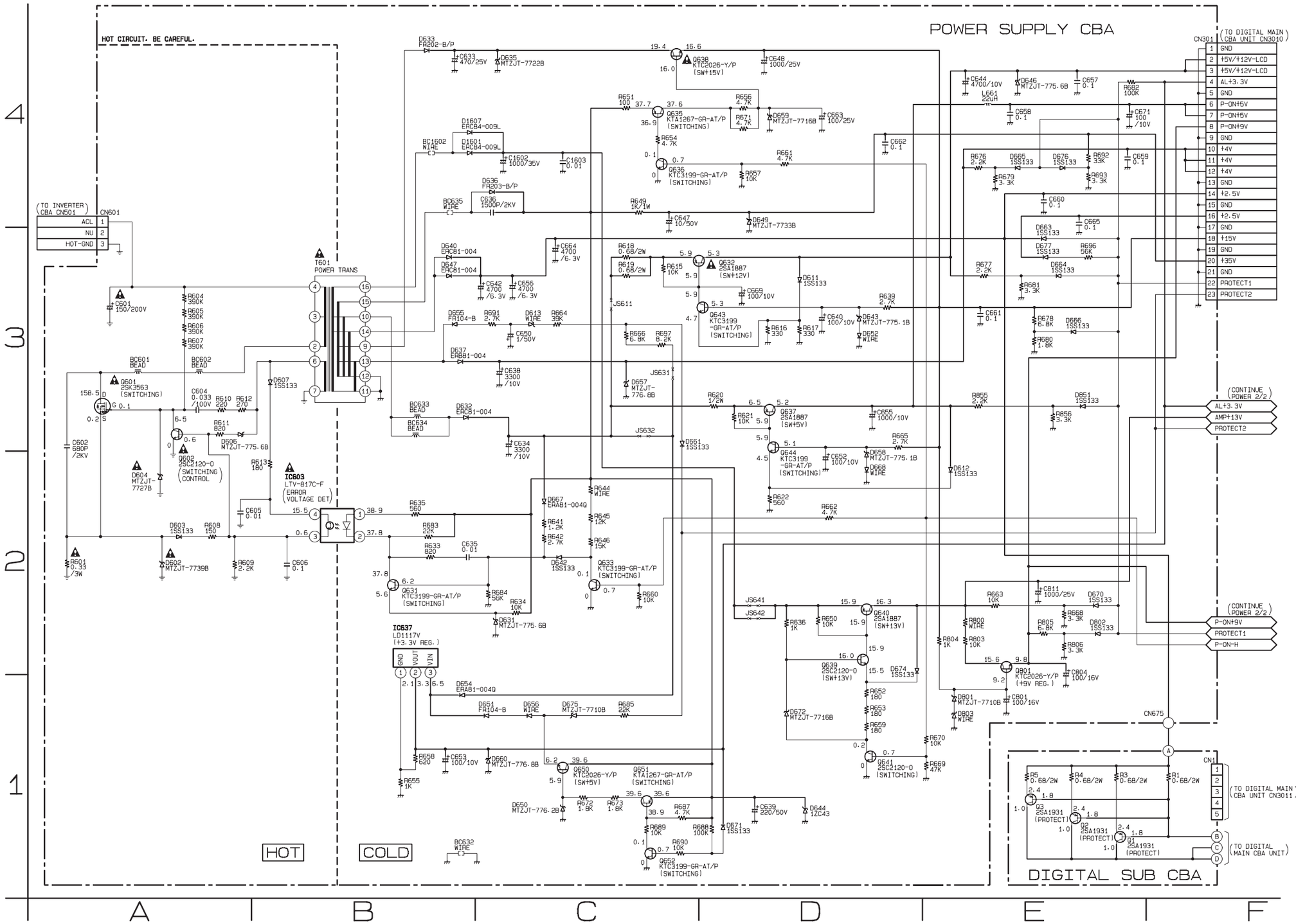
Power Supply 1/2 & Digital Sub Schematic Diagram

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

VOLTAGE CHART

CN301

Pin No.	Voltage
1	0
2	5.3
3	5.3
4	3.4
5	0
6	5.1
7	5.1
8	9.2
9	0
10	5.1
11	5.1
12	5.1
13	0
14	3.2
15	0
16	2.4
17	0
18	16.0
19	0
20	32.8
21	0
22	2.8
23	0



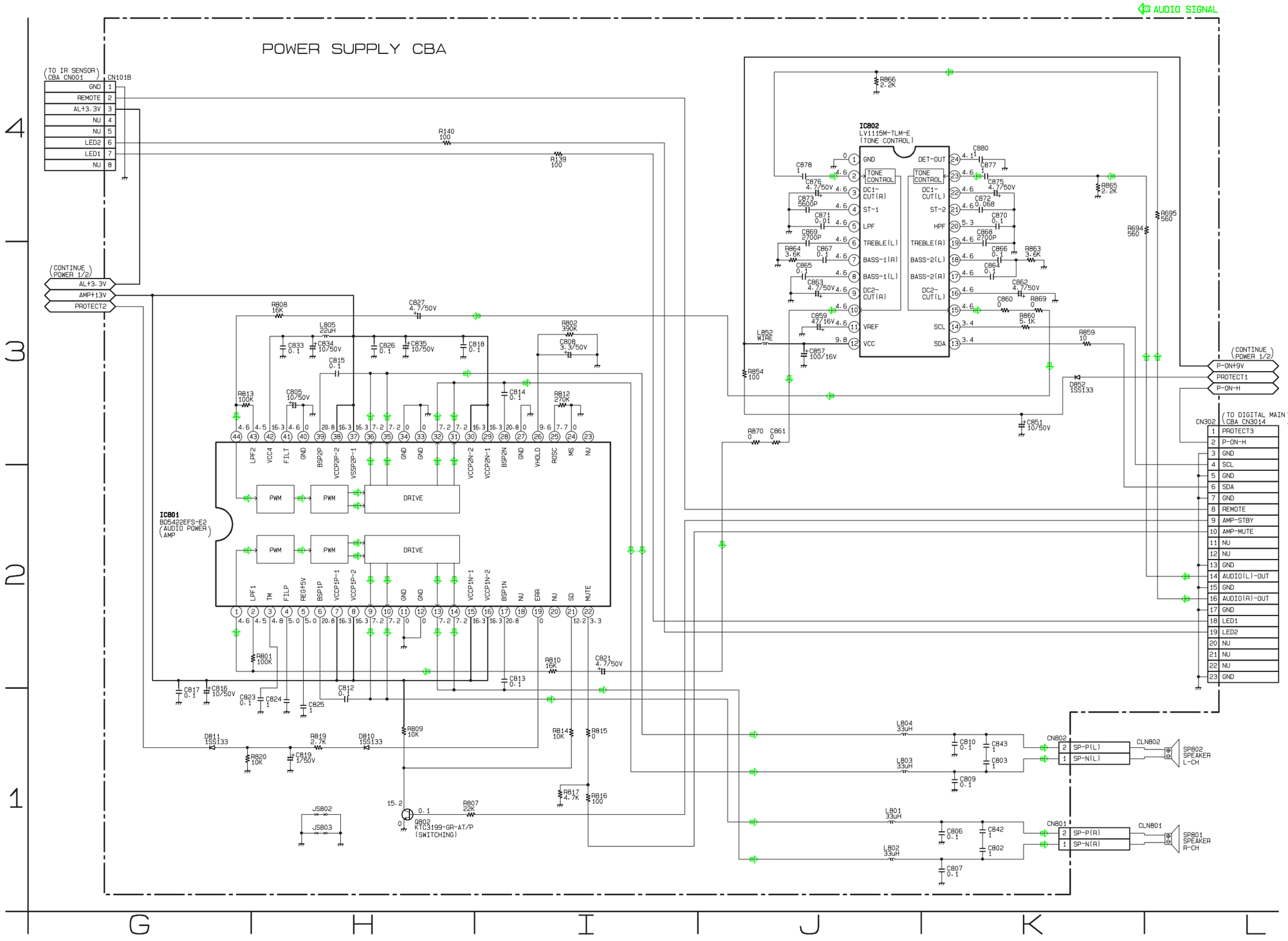
Power Supply 2/2 Schematic Diagram

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

VOLTAGE CHART

CN302

Pin No.	Voltage
1	---
2	3.1
3	0
4	3.5
5	0
6	3.5
7	0
8	3.4
9	0.1
10	0
11	---
12	---
13	0
14	6.4
15	0
16	6.4
17	0
18	3.3
19	0.8
20	---
21	---
22	---
23	0



A71A0SCP2

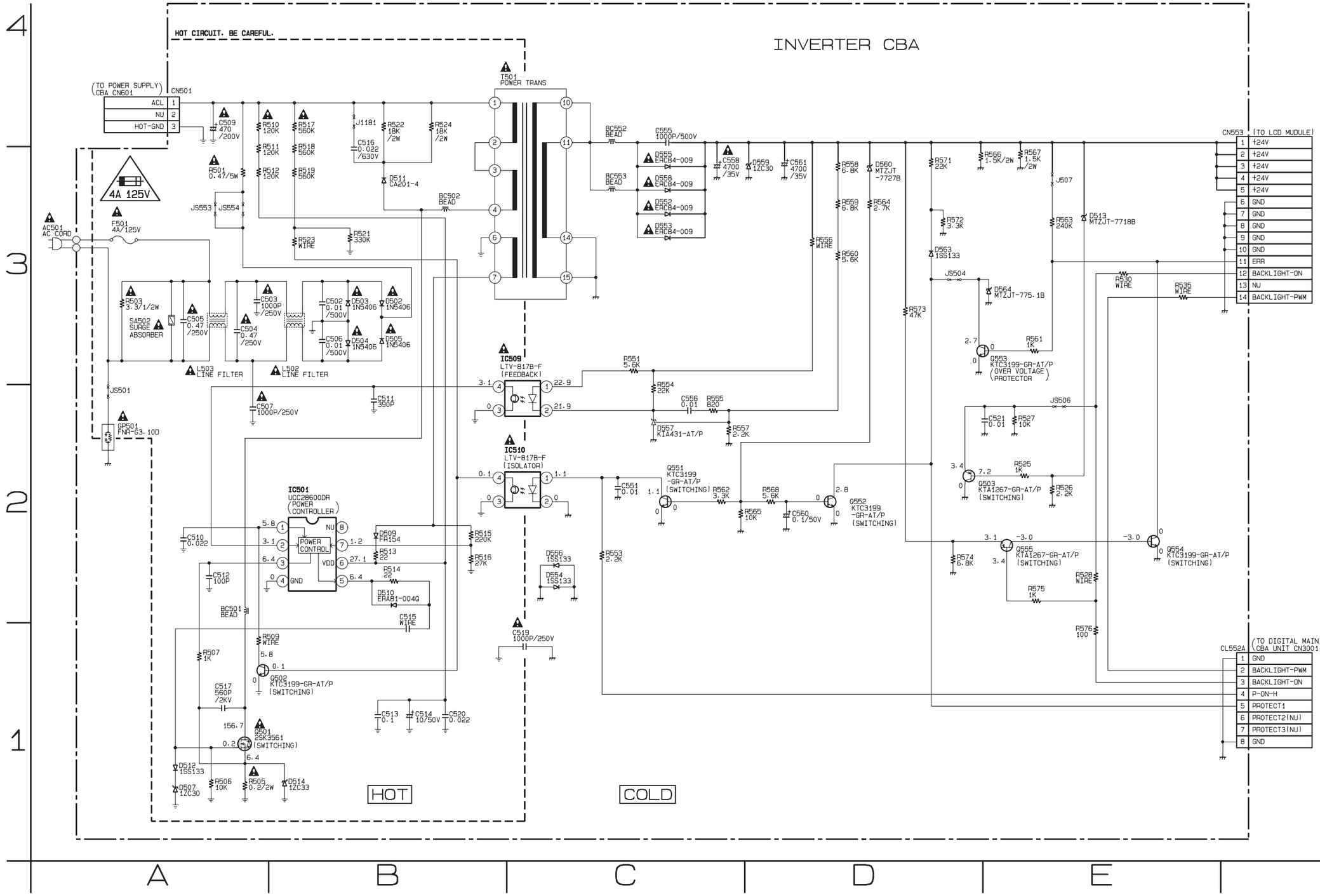
Inverter Schematic Diagram

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F501) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

4A/125V

CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

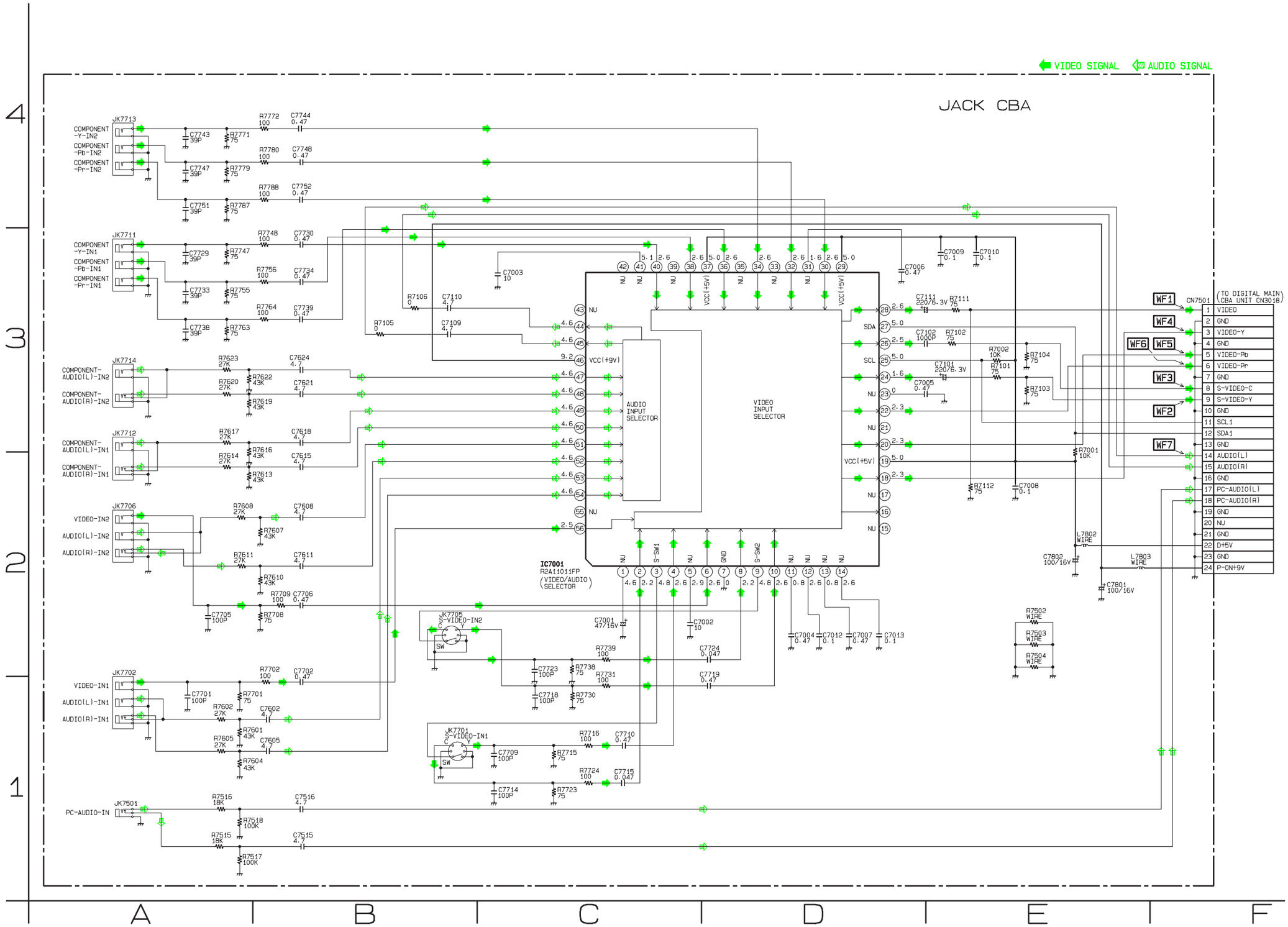


VOLTAGE CHART

CL552A

Pin No.	Voltage
1	0
2	3.5
3	3.4
4	3.1
5	2.7
6	---
7	---
8	0

Jack Schematic Diagram

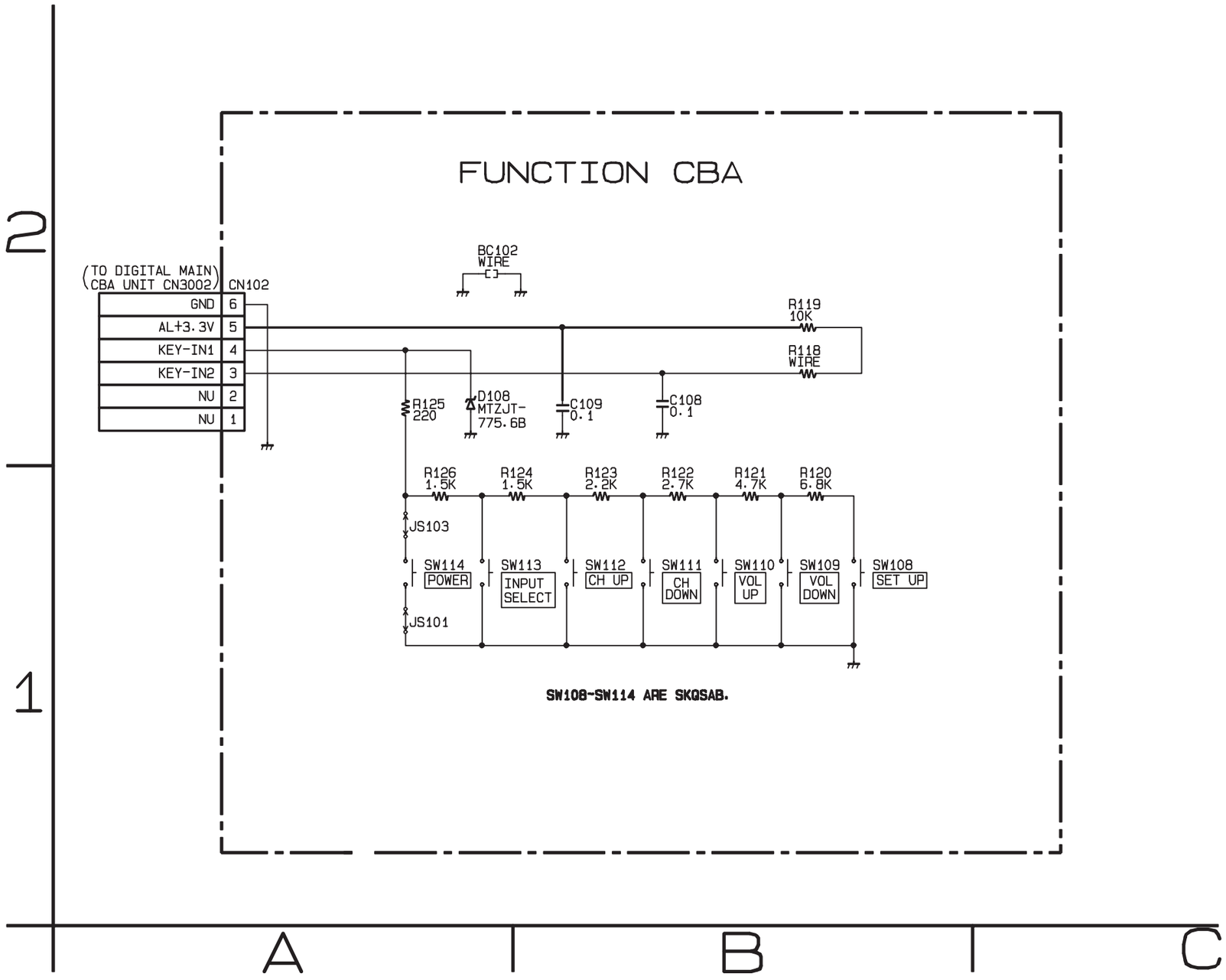


VOLTAGE CHART

CN7501

Pin No.	Voltage
1	2.6
2	0
3	2.3
4	0
5	2.3
6	0
7	0
8	0
9	0
10	0
11	5.0
12	5.0
13	0
14	2.5
15	2.5
16	0
17	2.5
18	2.5
19	0
20	---
21	0
22	5.0
23	0
24	9.1

Function Schematic Diagram

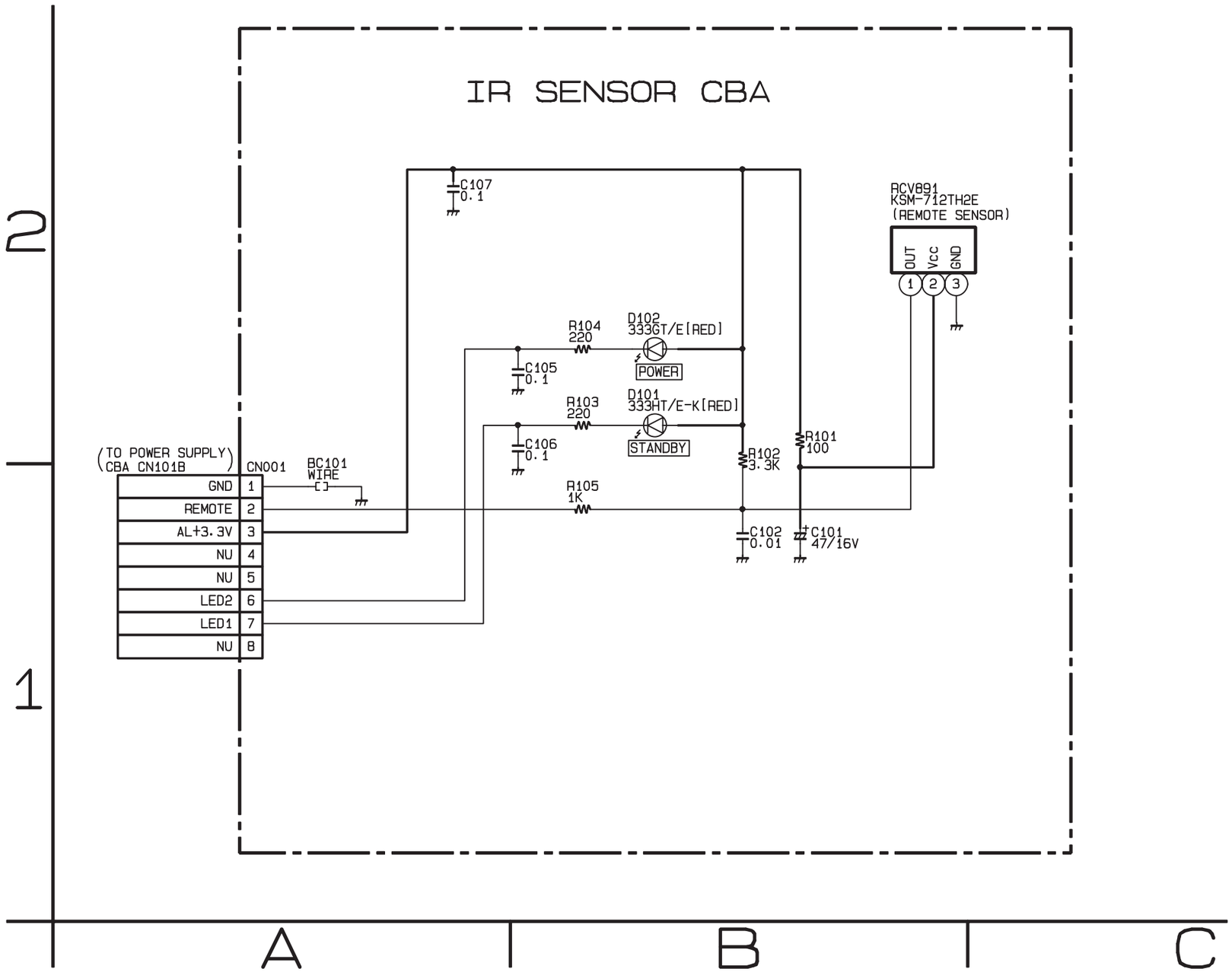


VOLTAGE CHART

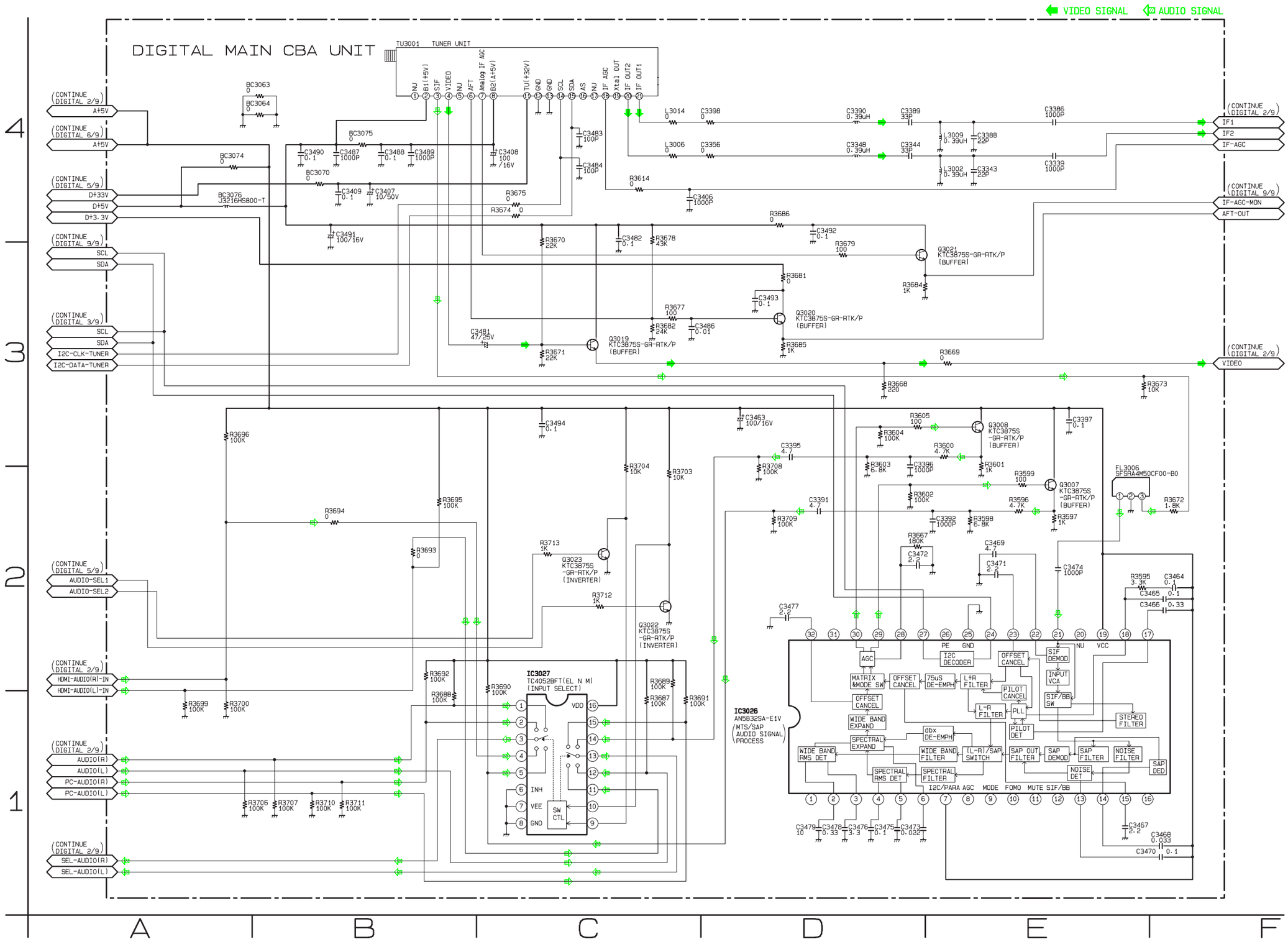
CN102

Pin No.	Voltage
1	---
2	---
3	3.4
4	3.4
5	---
6	0

IR Sensor Schematic Diagram

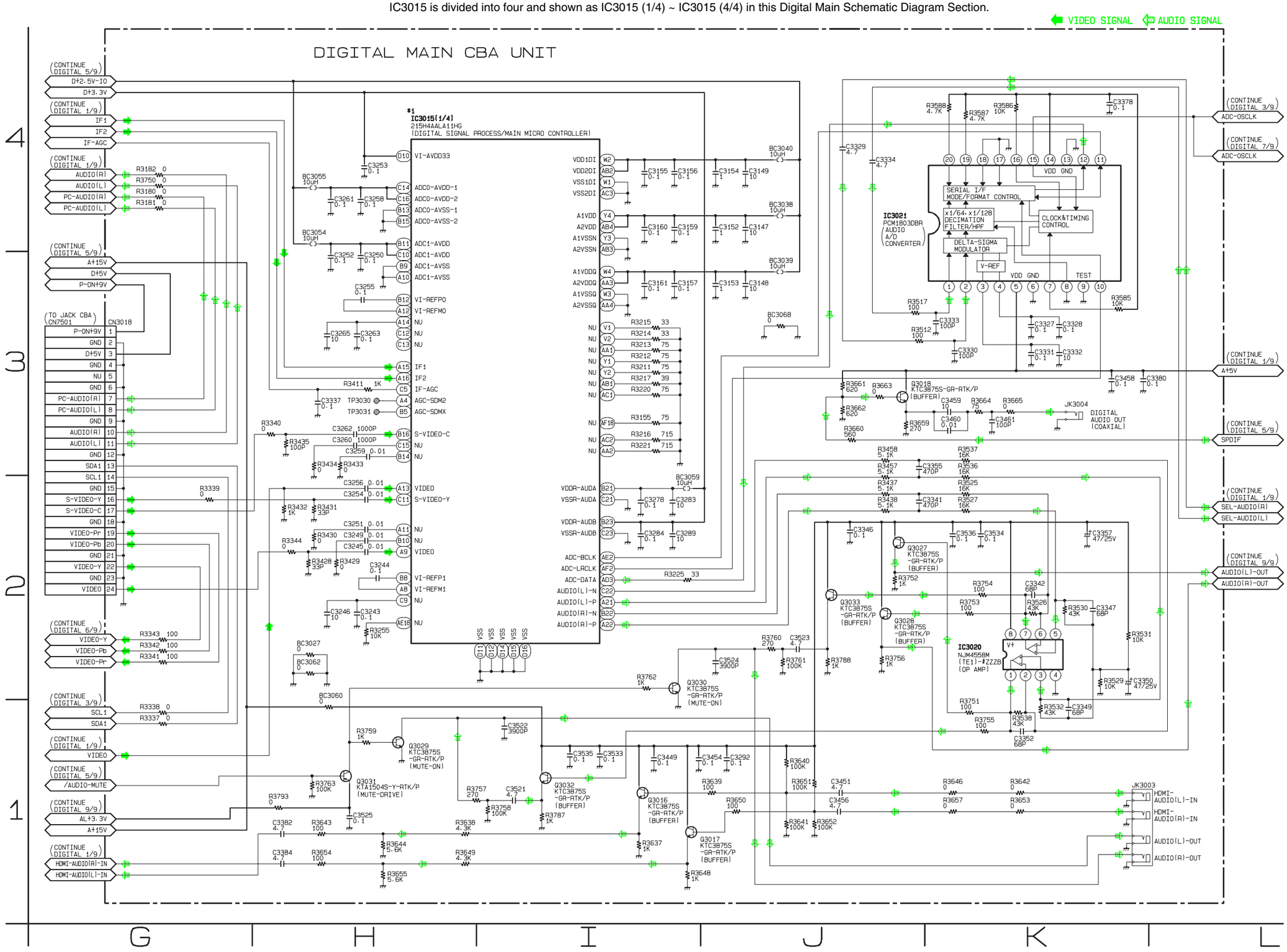


Digital Main 1/9 Schematic Diagram



Digital Main 2/9 Schematic Diagram

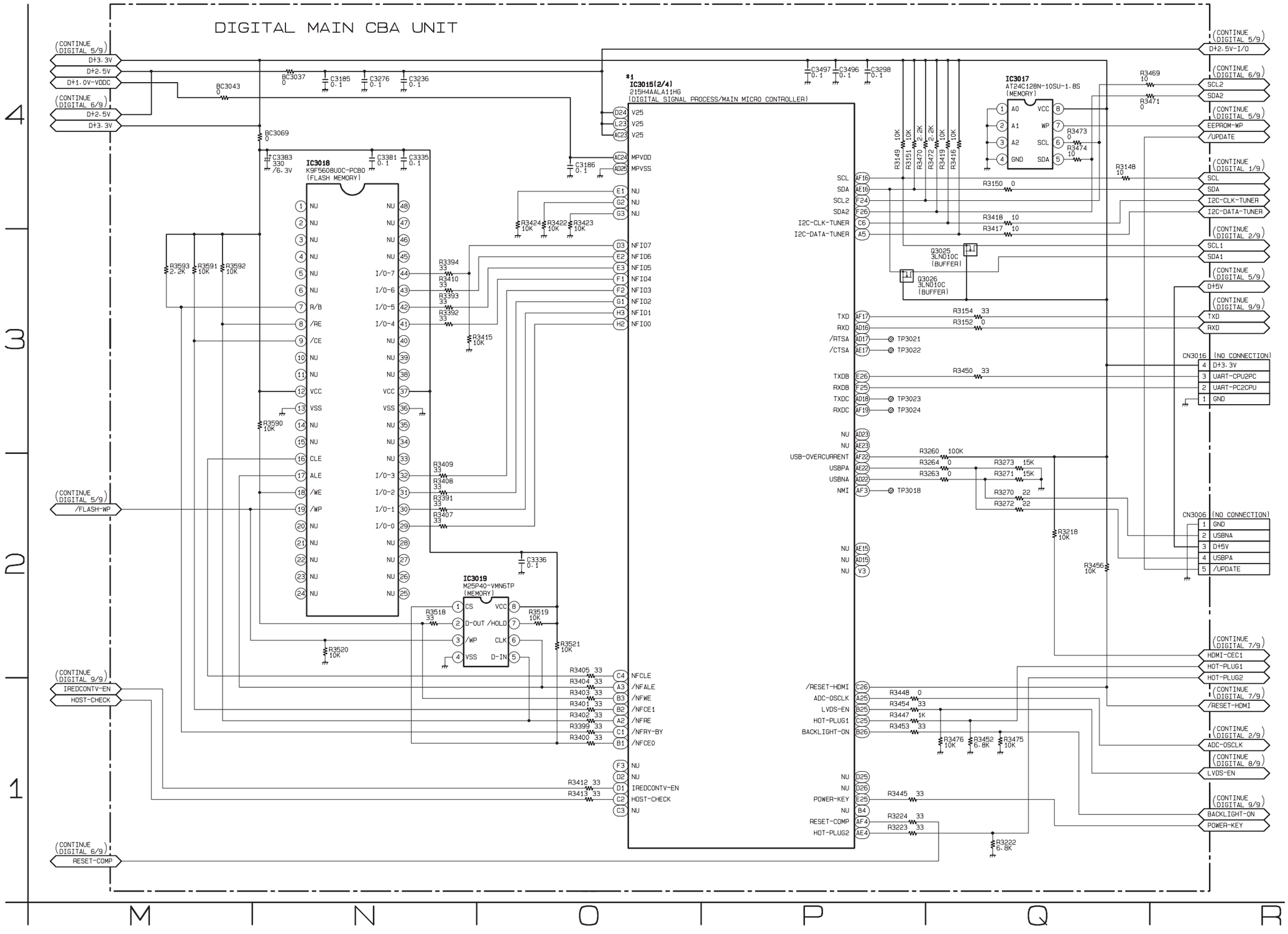
∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3015.
IC3015 is divided into four and shown as IC3015 (1/4) ~ IC3015 (4/4) in this Digital Main Schematic Diagram Section.



A71A0SCD2

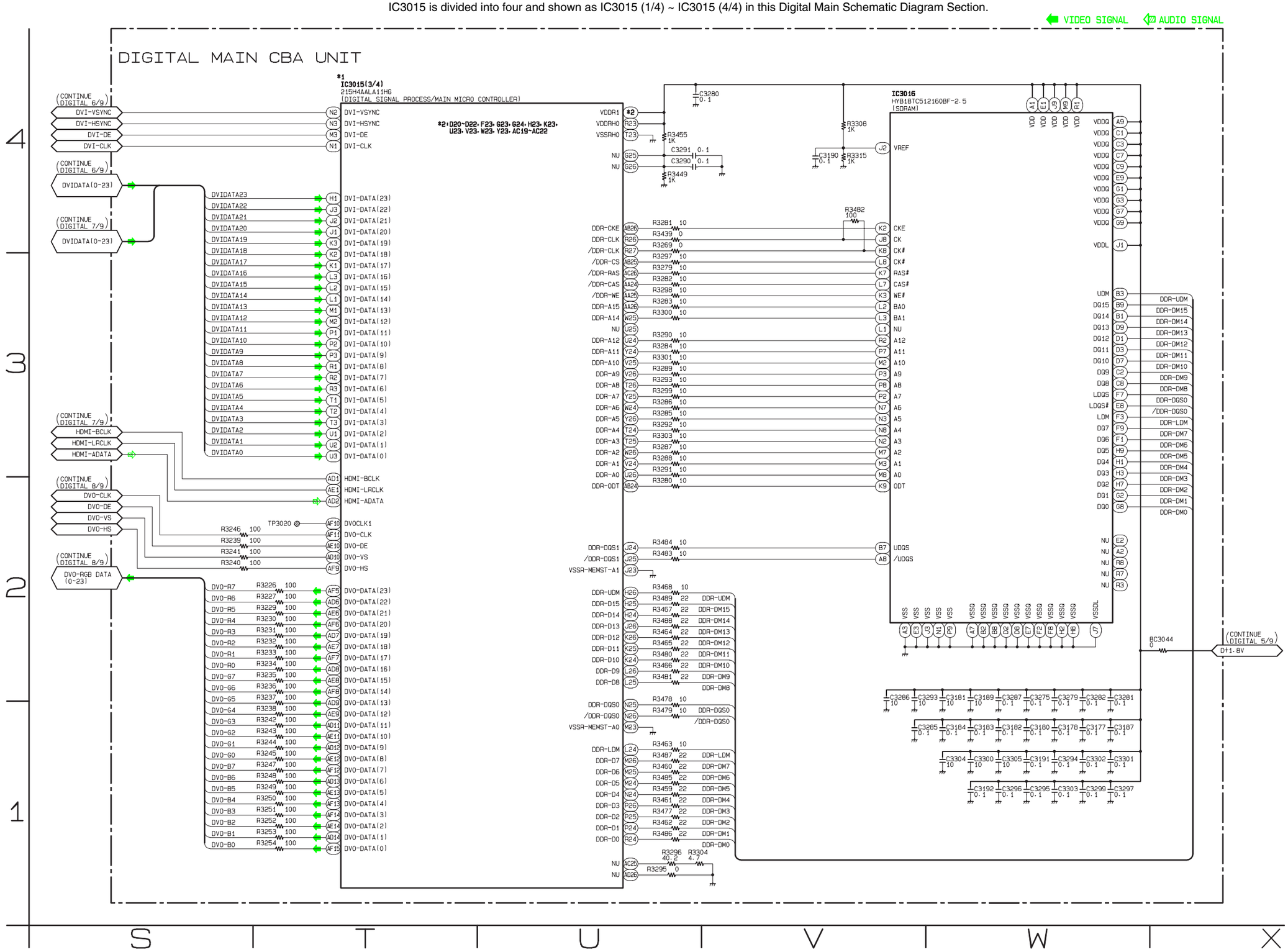
Digital Main 3/9 Schematic Diagram

＊1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3015.
IC3015 is divided into four and shown as IC3015 (1/4) ~ IC3015 (4/4) in this Digital Main Schematic Diagram Section.



Digital Main 4/9 Schematic Diagram

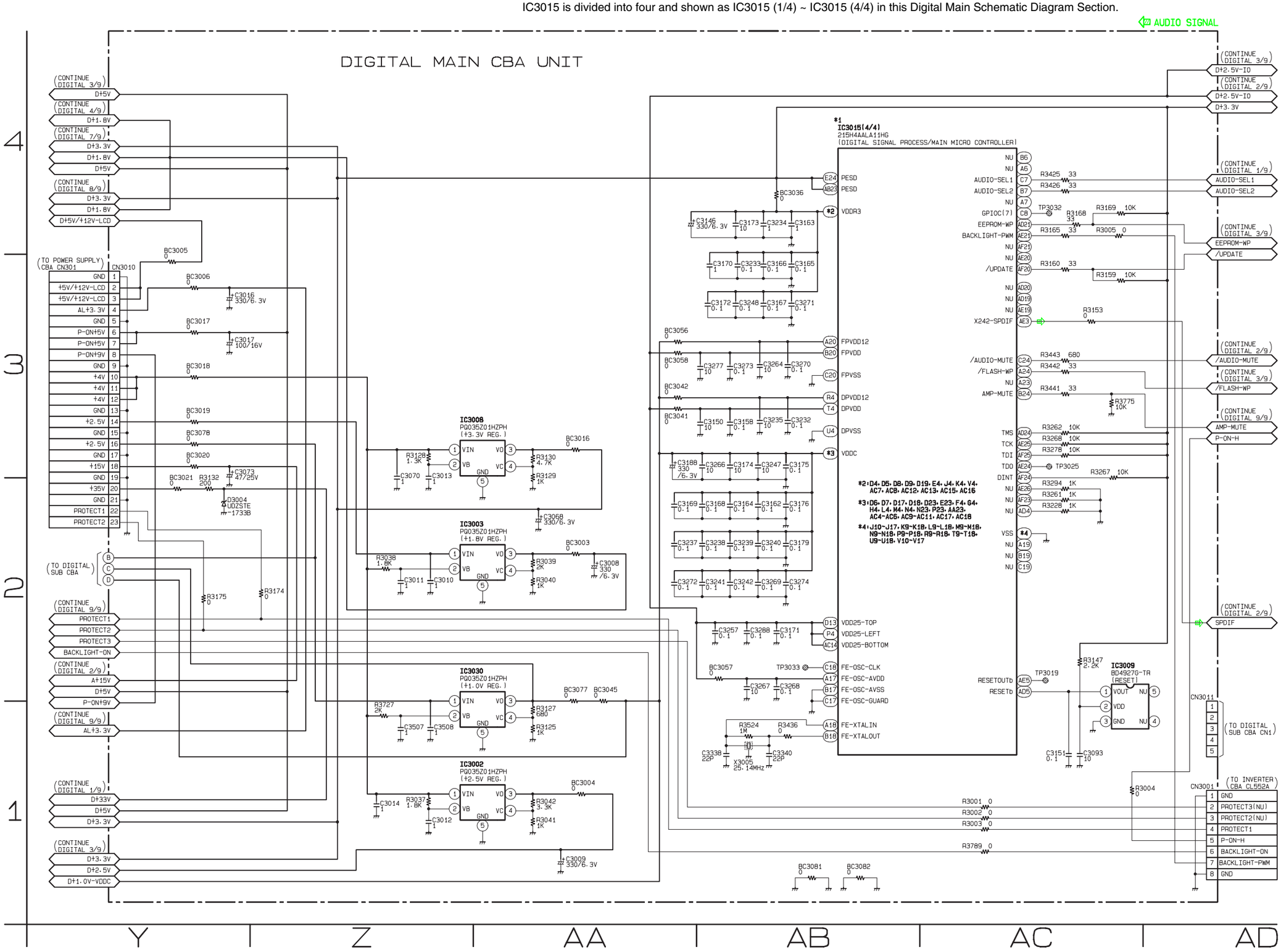
∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3015.
IC3015 is divided into four and shown as IC3015 (1/4) ~ IC3015 (4/4) in this Digital Main Schematic Diagram Section.



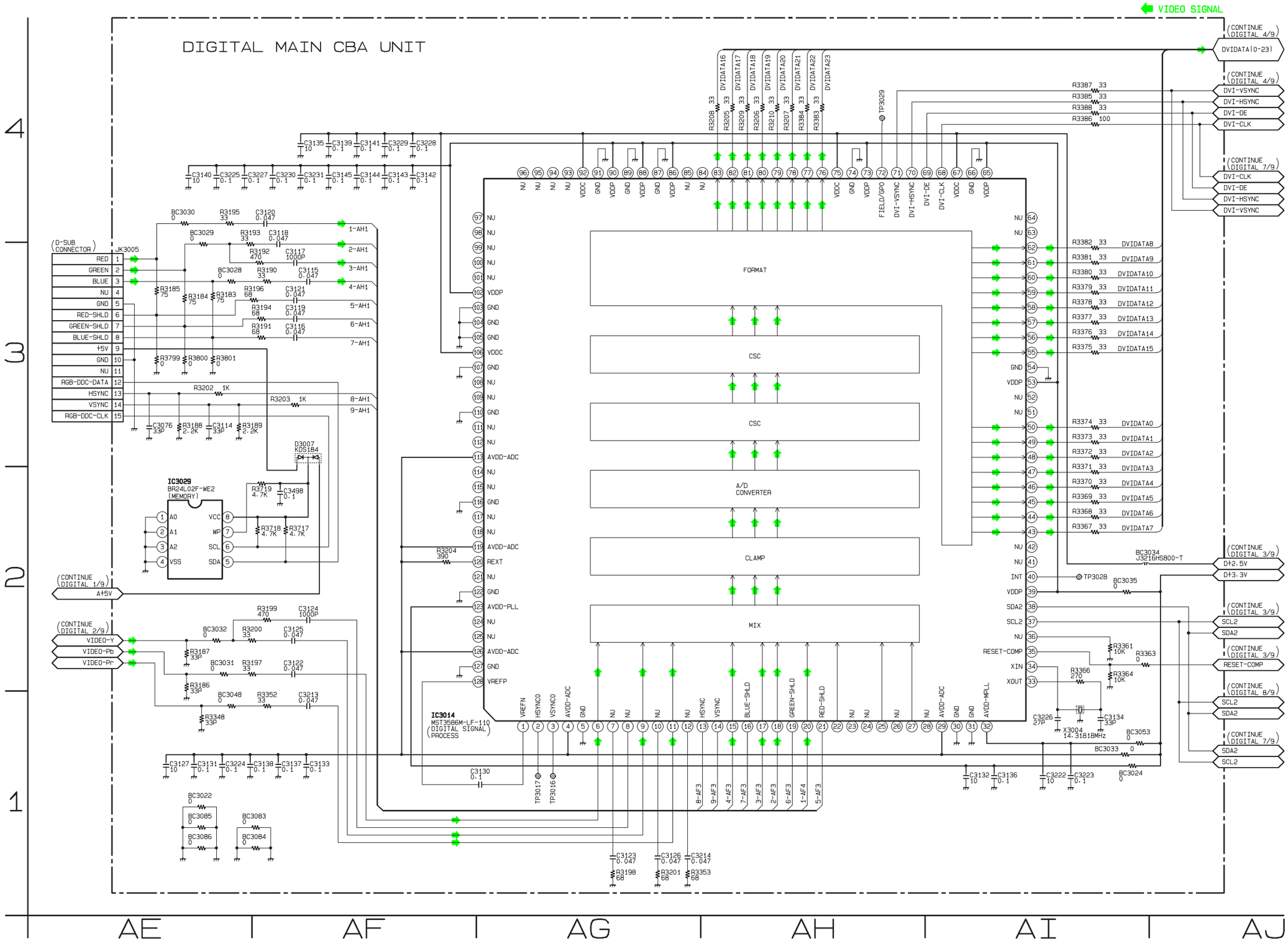
A71A0SCD4

Digital Main 5/9 Schematic Diagram

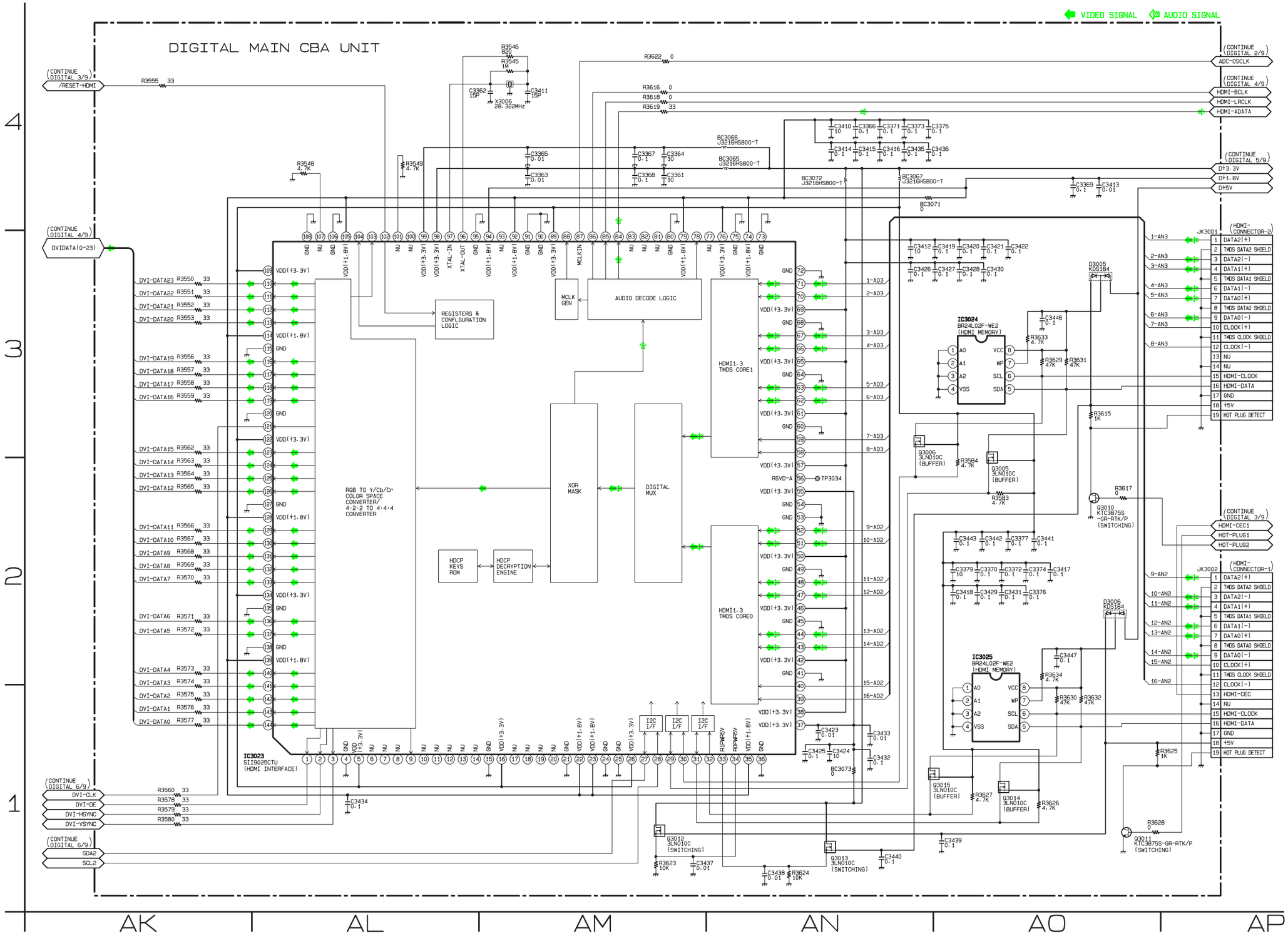
***1 NOTE:**
The order of pins shown in this diagram is different from that of actual IC3015.
IC3015 is divided into four and shown as IC3015 (1/4) ~ IC3015 (4/4) in this Digital Main Schematic Diagram Section.



Digital Main 6/9 Schematic Diagram

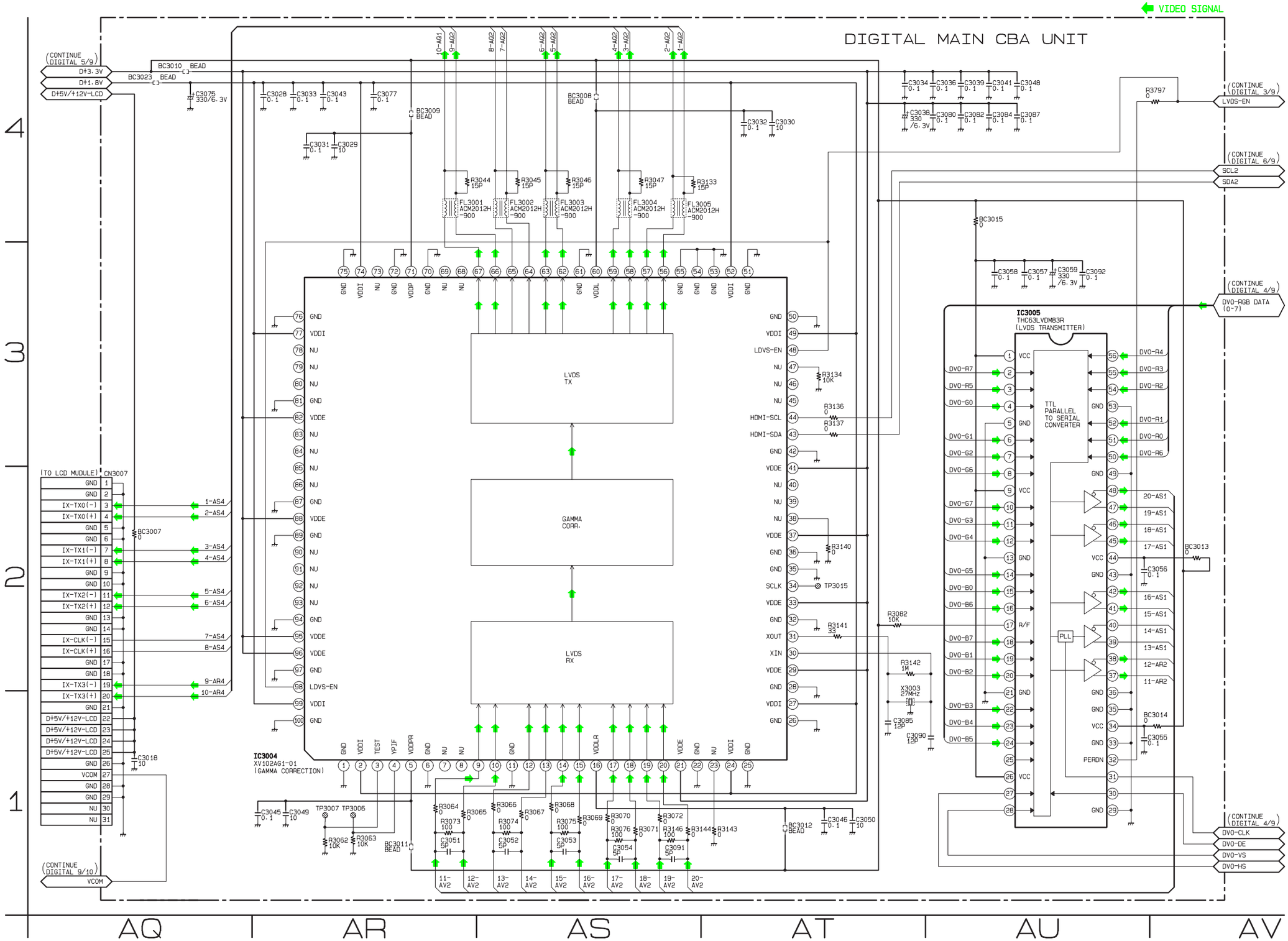


Digital Main 7/9 Schematic Diagram



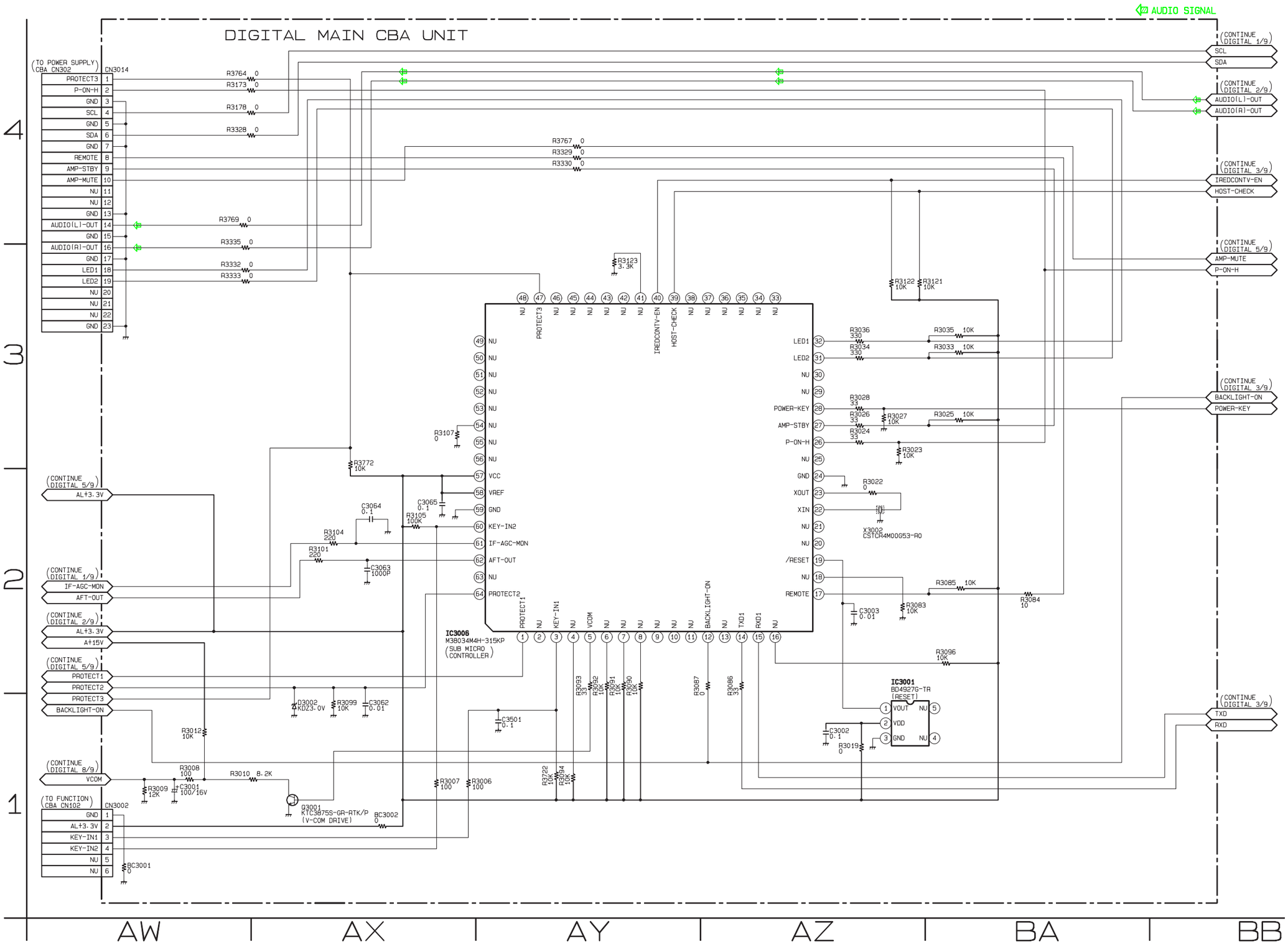
A71A0SCD7

Digital Main 8/9 Schematic Diagram



A71A0SCD8

Digital Main 9/9 Schematic Diagram

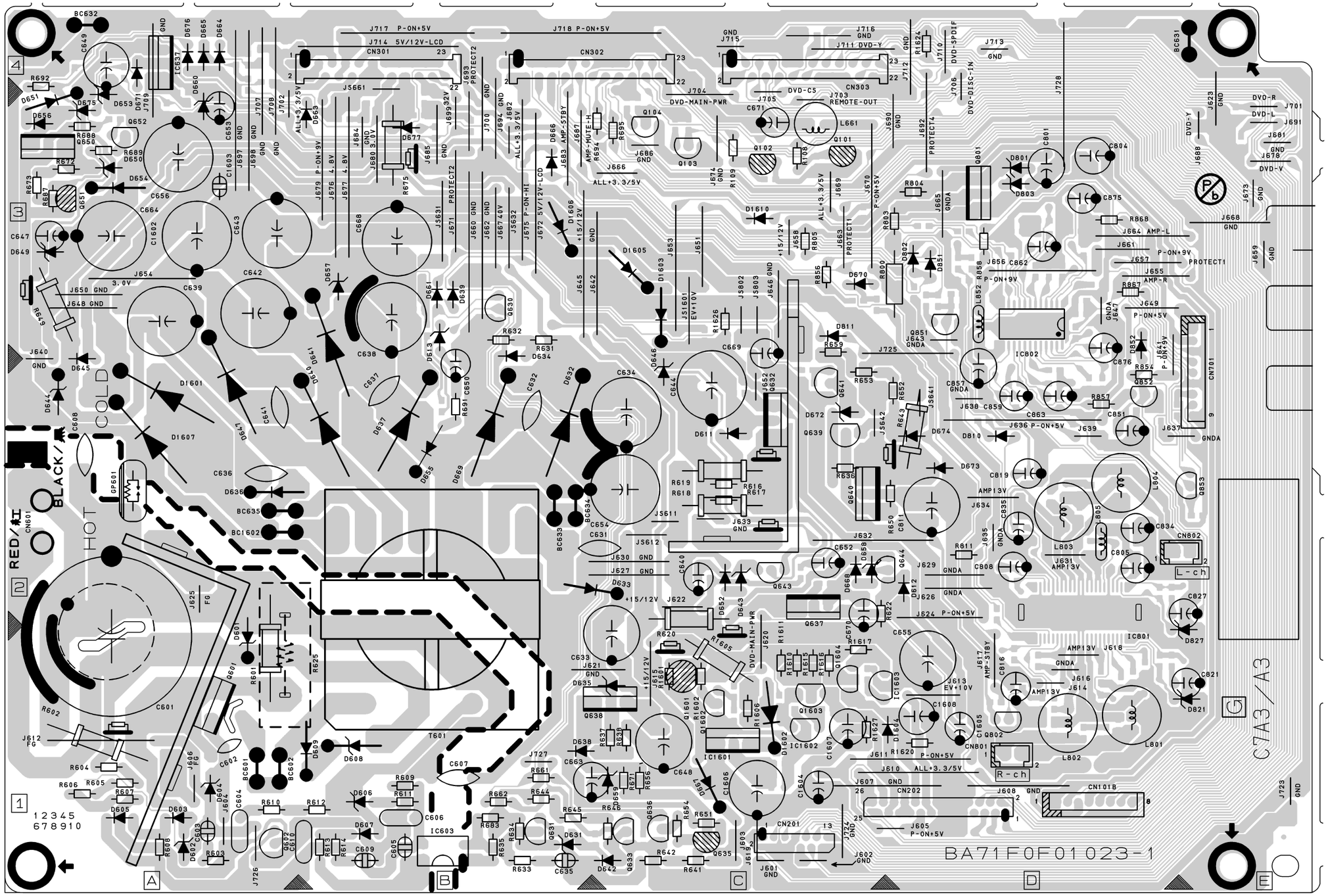


A71A0SCD9

Power Supply CBA Top View

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

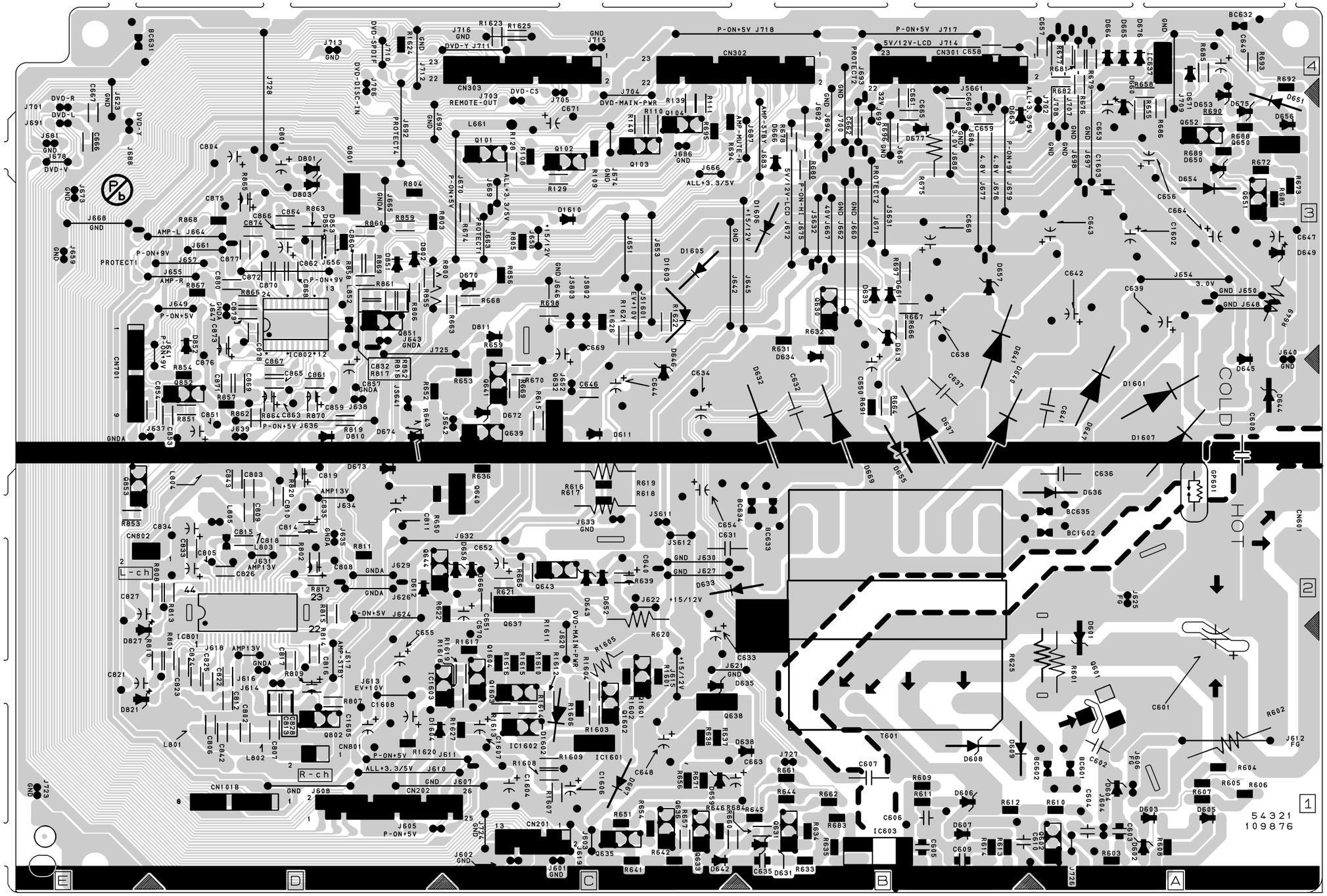
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.



Power Supply CBA Bottom View

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

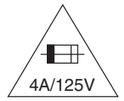
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.



Inverter CBA Top View

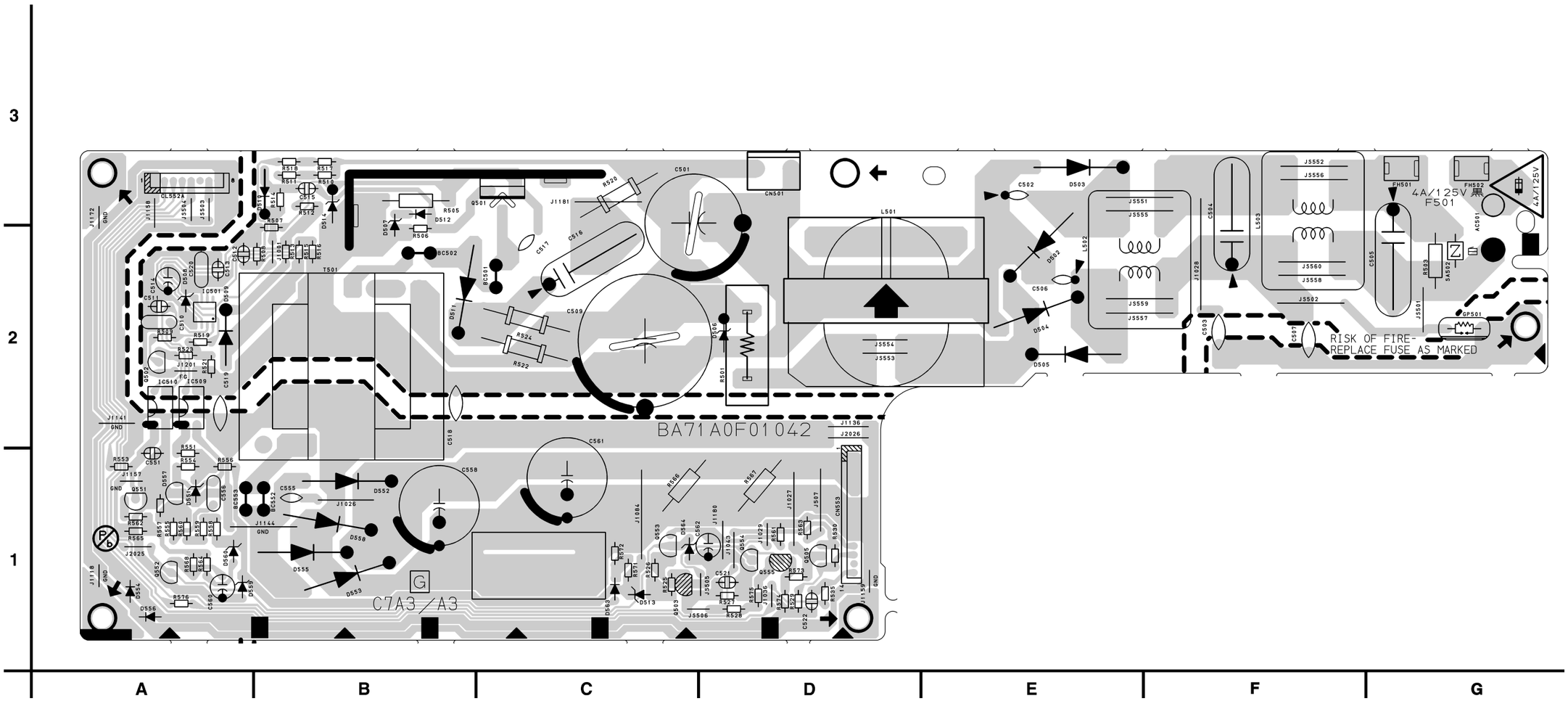
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F501) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

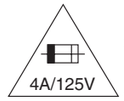
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.



Inverter CBA Bottom View

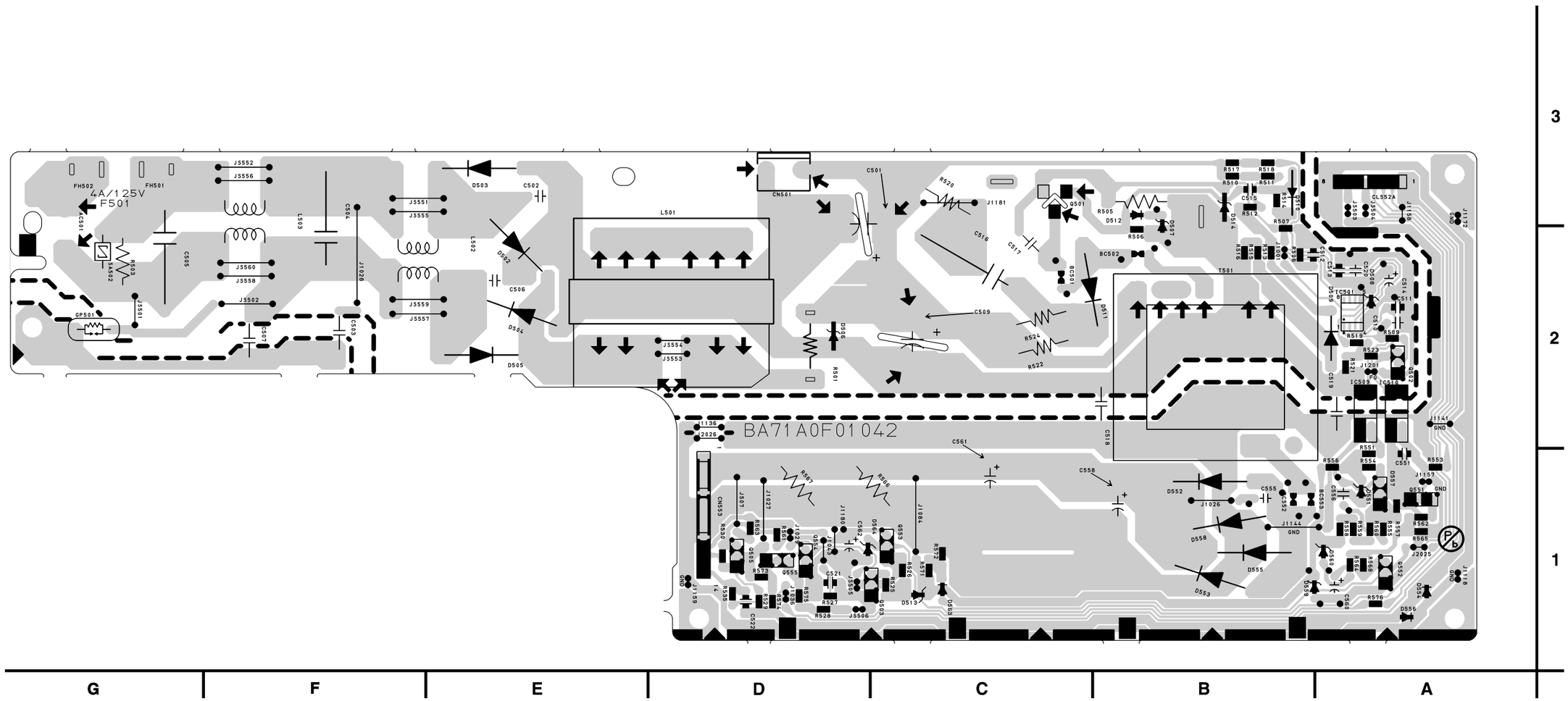
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F501) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

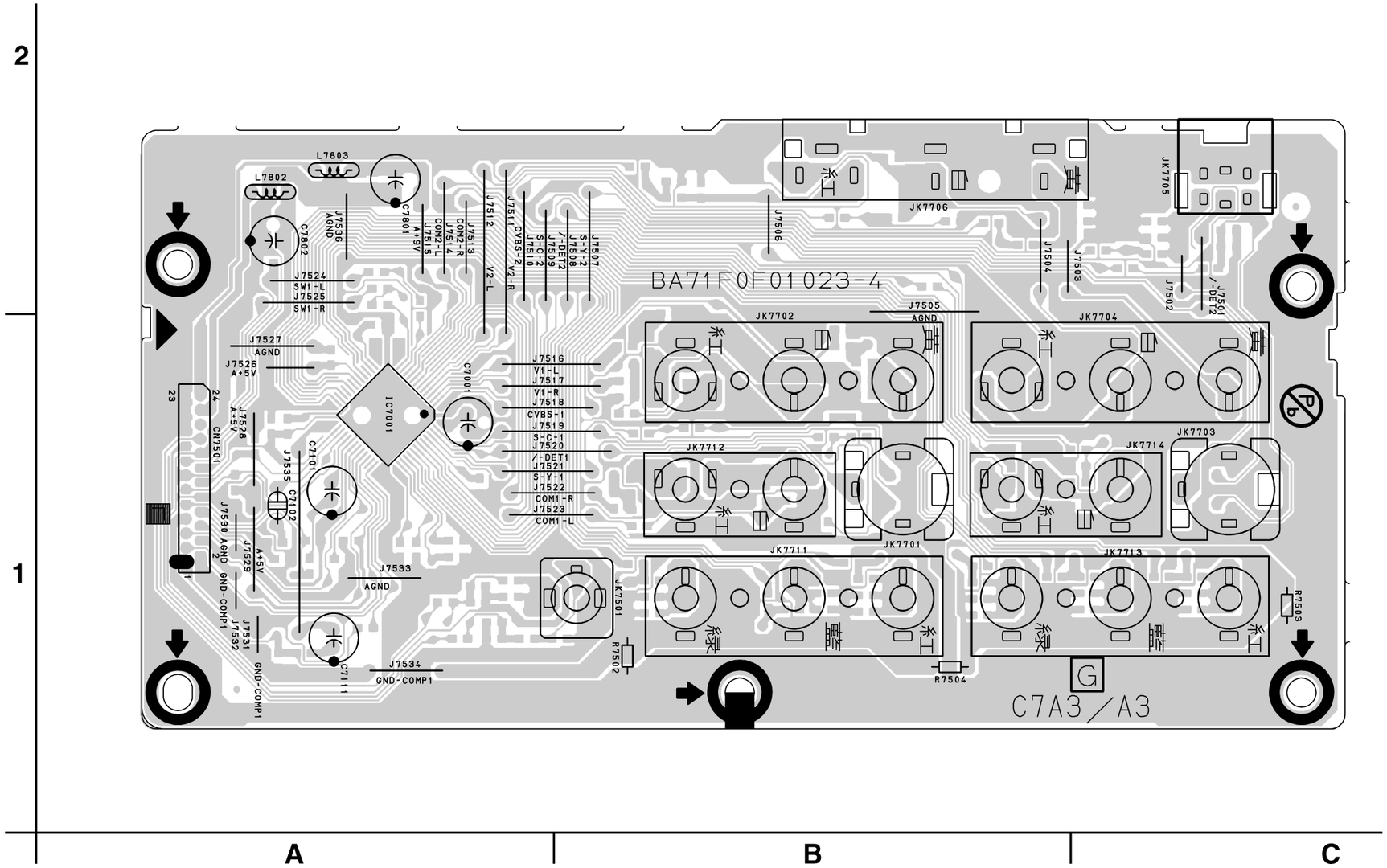


CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

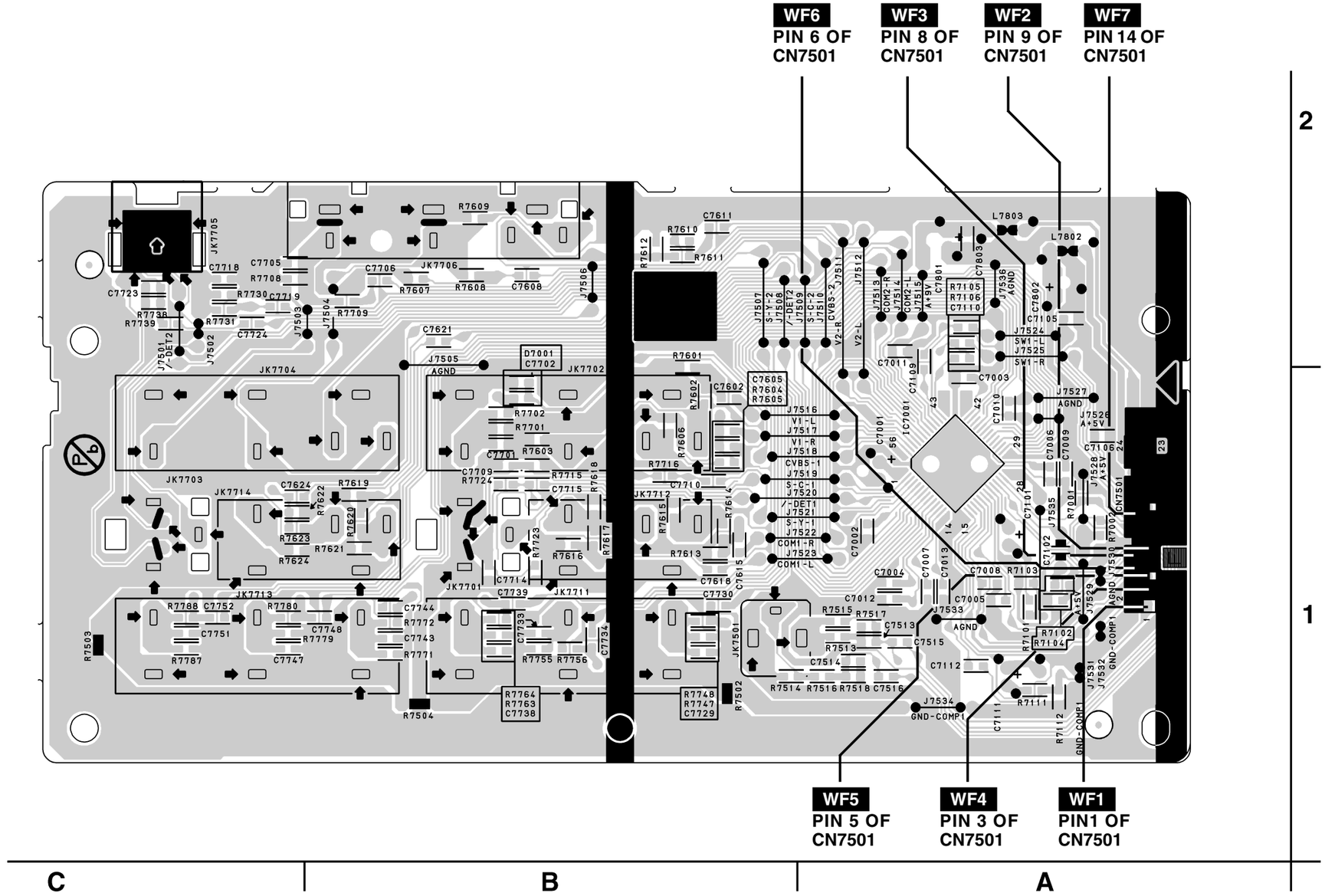
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.



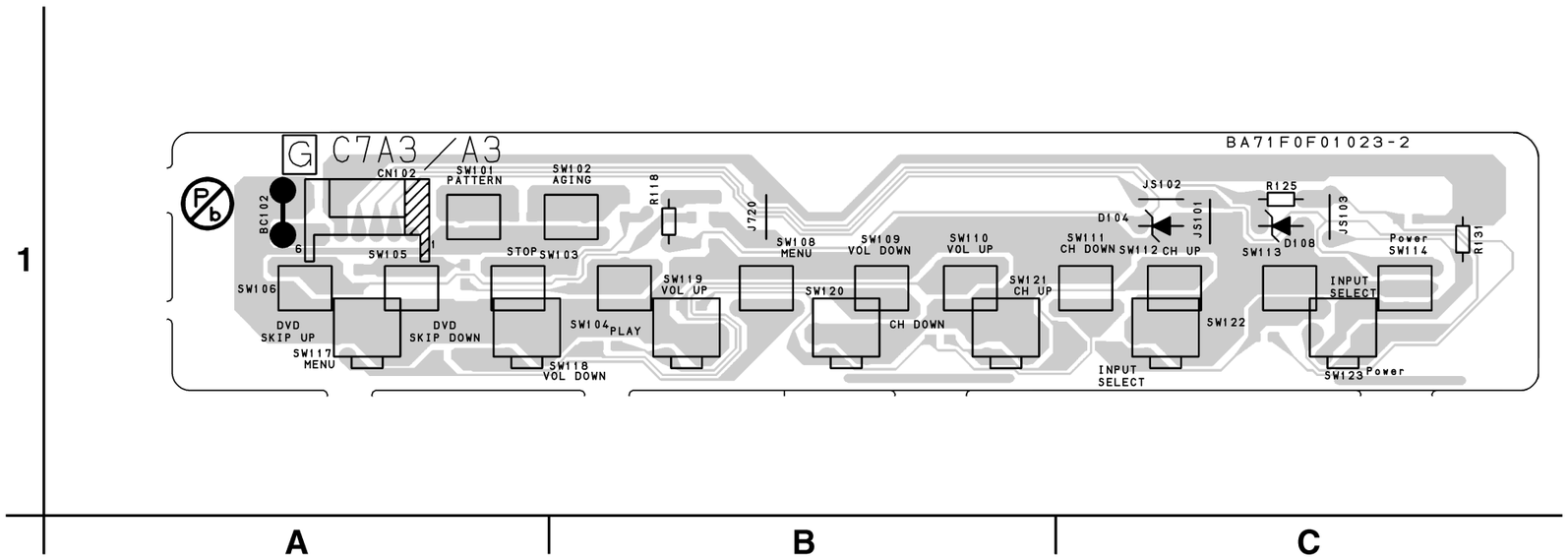
Jack CBA Top View



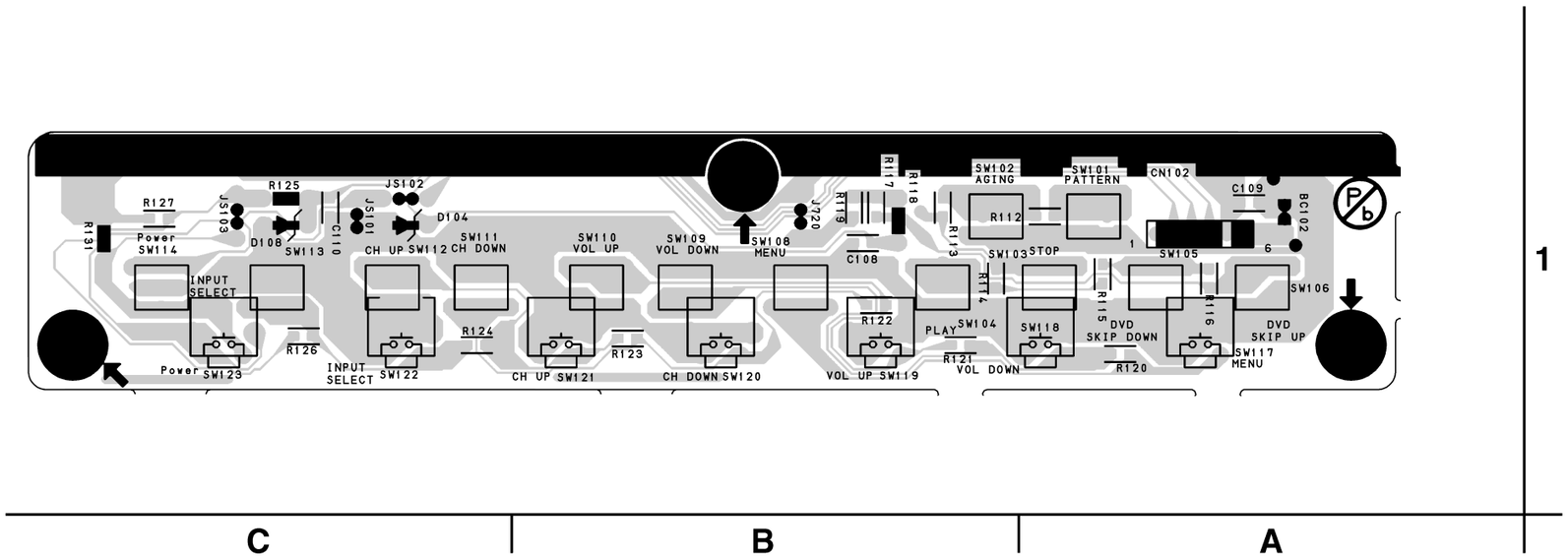
Jack CBA Bottom View



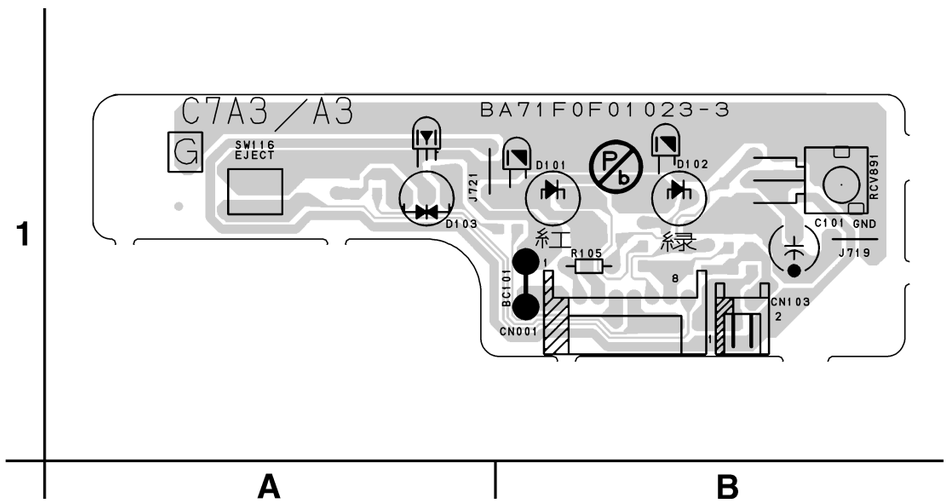
Function CBA Top View



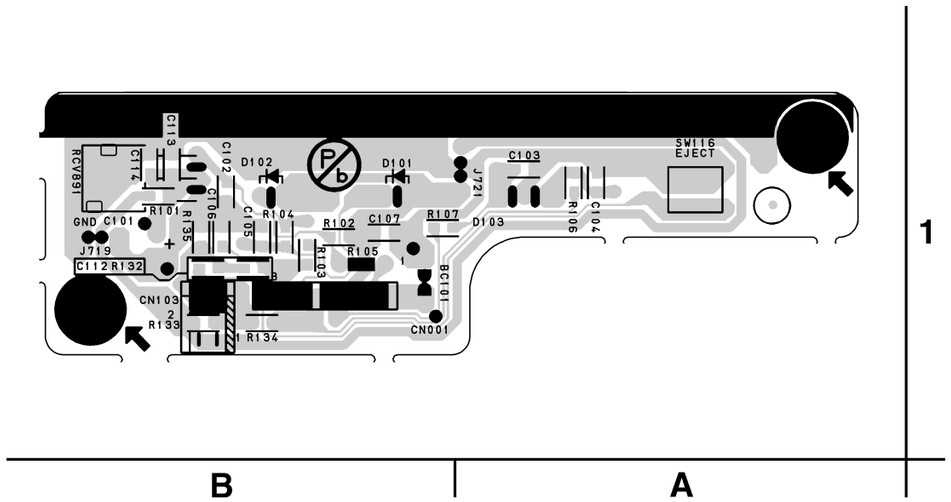
Function CBA Bottom View



IR Sensor CBA Top View

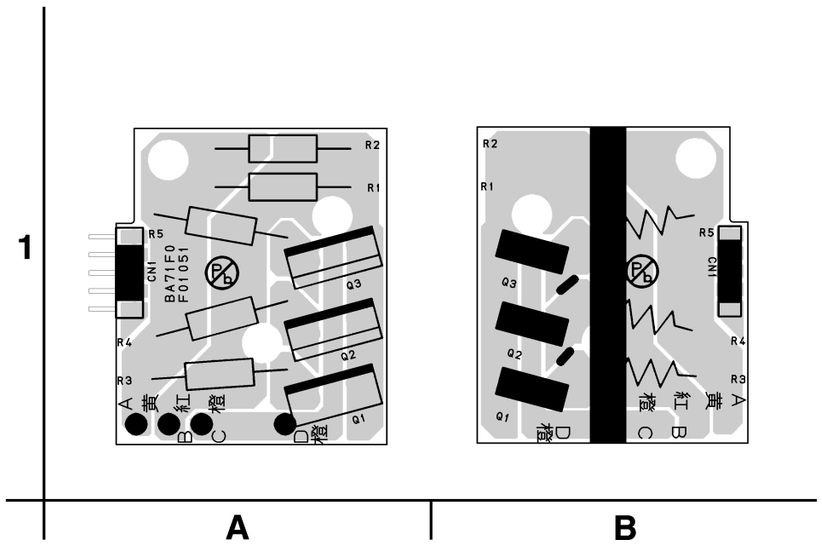


IR Sensor CBA Bottom View



BA71F0F01023-3

Digital Sub CBA Top & Bottom View



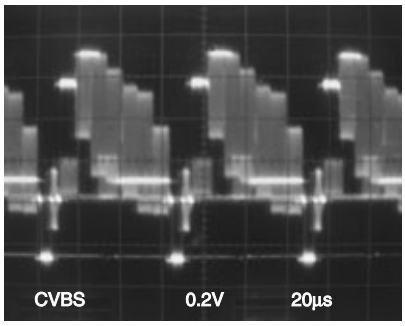
BA71F0F01051

WAVEFORMS

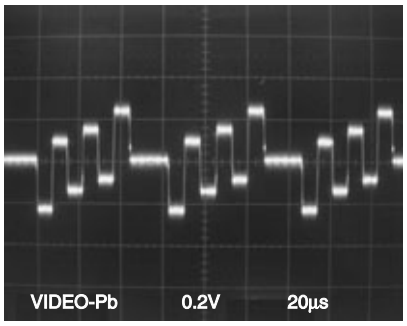
WF1 ~ WF7 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: NTSC Color Bar Signal (with 1kHz Audio Signal)

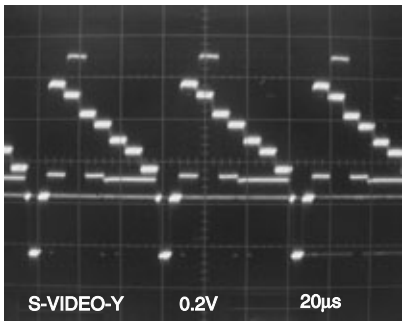
WF1 Pin 1 of CN7501



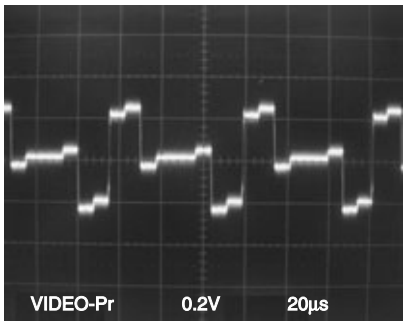
WF5 Pin 5 of CN7501



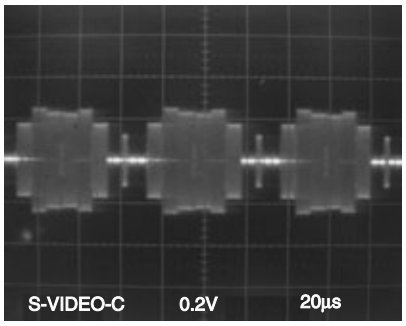
WF2 Pin 9 of CN7501



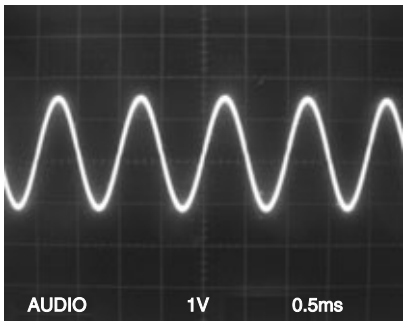
WF6 Pin 6 of CN7501



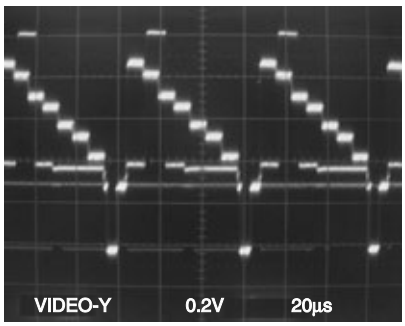
WF3 Pin 8 of CN7501



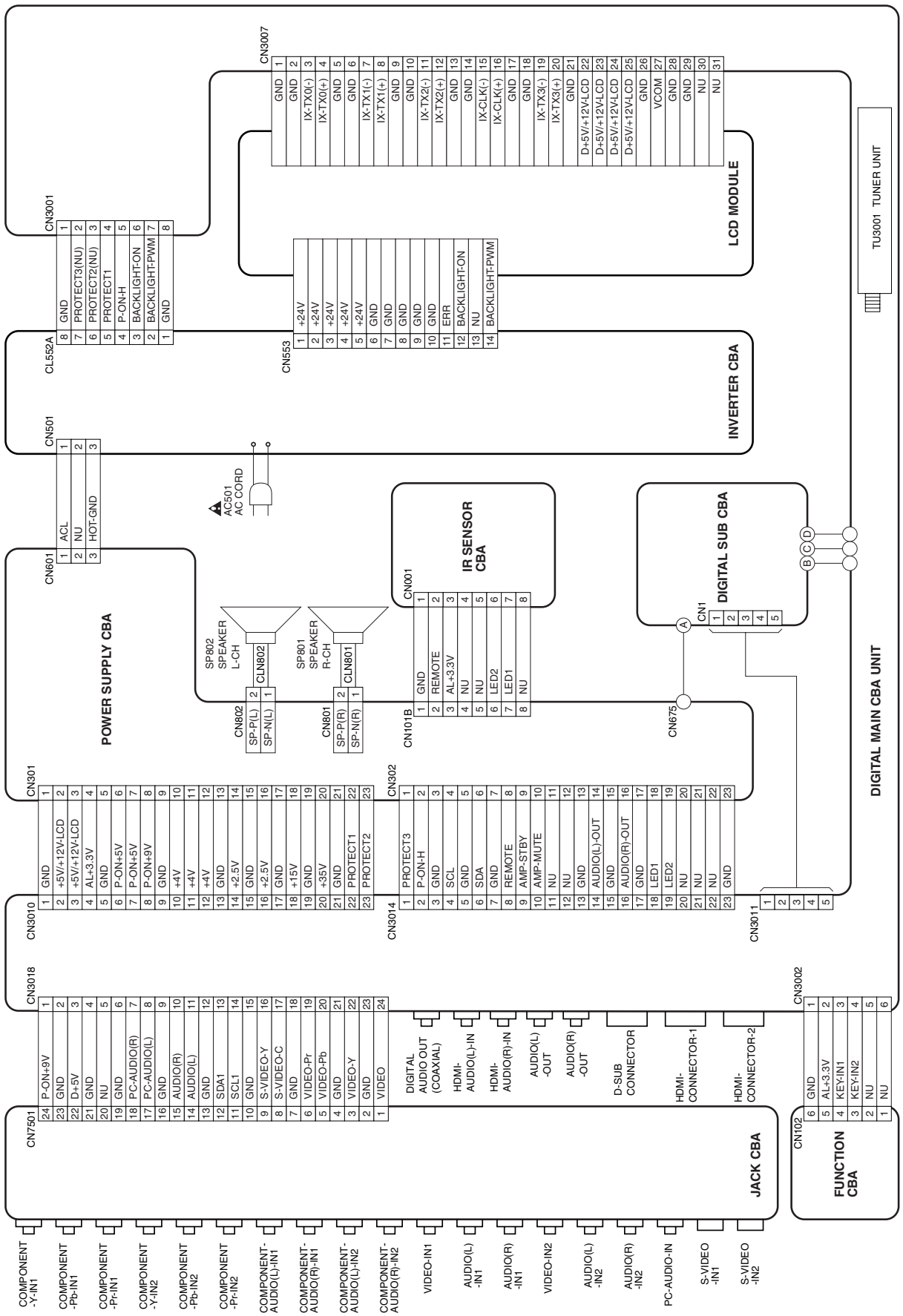
WF7 Pin 14 of CN7501



WF4 Pin 3 of CN7501

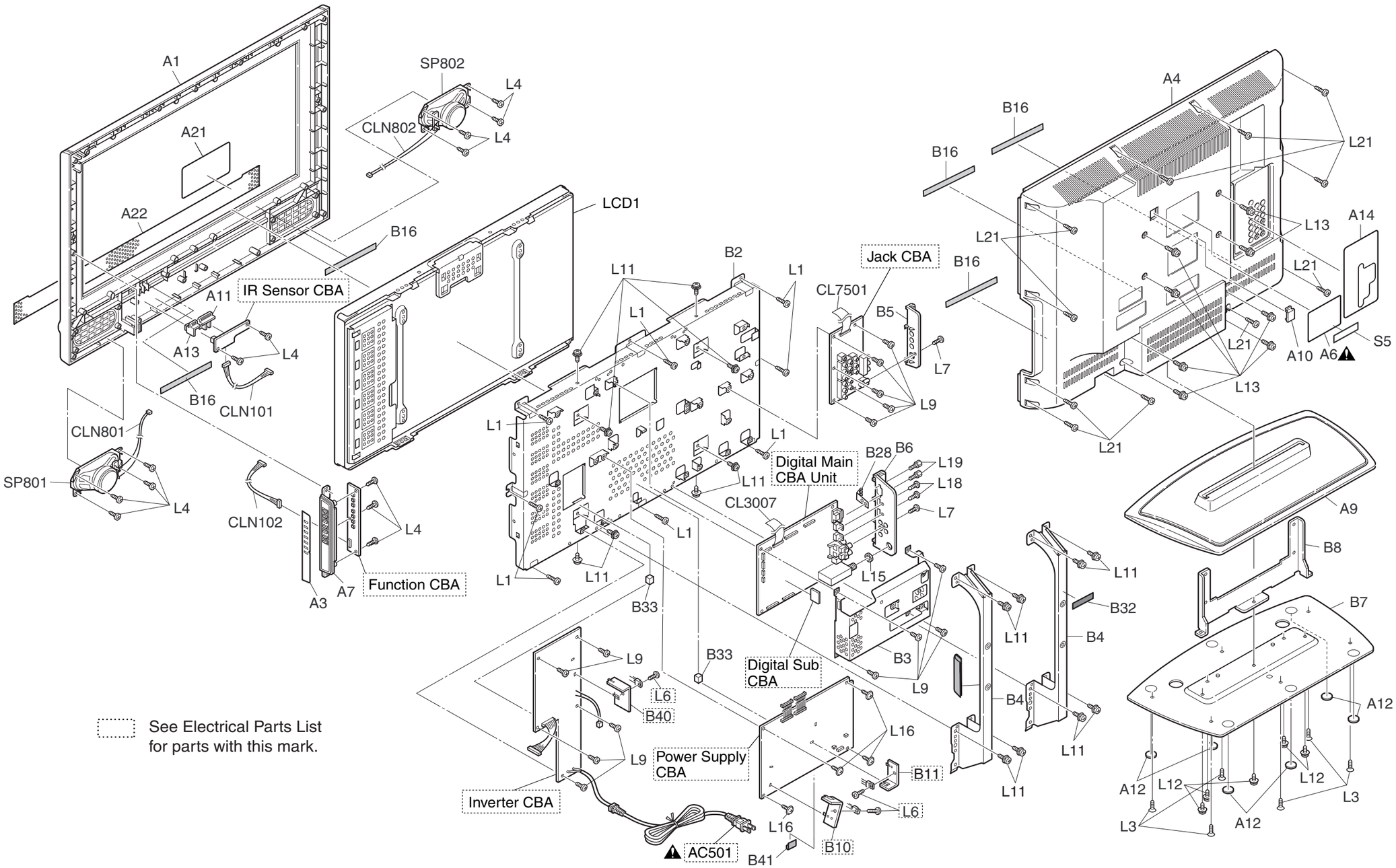


WIRING DIAGRAM



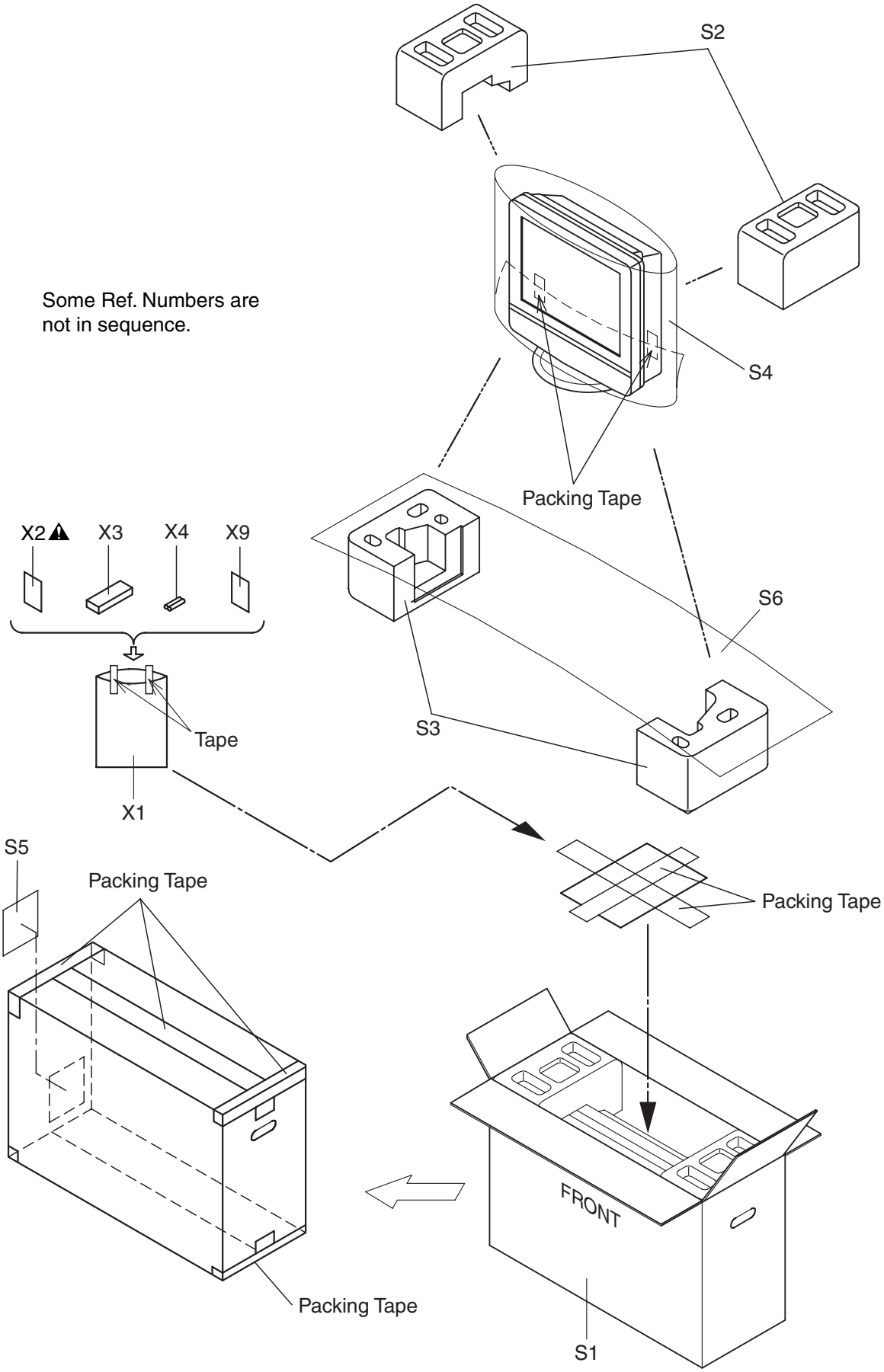
EXPLODED VIEWS

Cabinet



See Electrical Parts List for parts with this mark.

Packing


S2
Some Ref. Numbers are not in sequence.
S4
Packing Tape
X2 ⚠
X3
X4
X9
S6
Tape
S3
X1
S5
Packing Tape
Packing Tape
Packing Tape
FRONT
S1

MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (---------) are not available.

Ref. No.	Description	Part No.
A1	FRONT CABINET A71A0UH	1EM021683
A3	CONTROL PLATE A71F0UH	1EM322471
A4	REAR CABINET A71A0UH	1EM021684
A6⚠	RATING LABEL A71A0UH	---------
A7	FUNCTION KNOB A71F0UH	1EM121822
A9	STAND COVER A71F0UH	1EM021618A
A10	REAR COVER A7260JH	1EM322484
A11	LED LENS A71F0UH	1EM322469
A12	STAND RUBBER FOOT L5001CB	1EM423855
A13	SENSOR LENS A71F0UH	1EM322470
A14	JACK PLATE A71F0UH	1EM221551
A21	POP LABEL A71F0UH	---------
A22	PUNCHING SHEET A71A0UH	1EM021764
B2	PCB HOLDER A71A0UH	1EM021687
B3	SHIELD BOX A71F0UH	1EM121832
B4	CHASSIS BRACKET 26V A71A0UH	1EM121855
B5	JACK HOLDER(A) A71F0UH	1EM221530
B6	JACK HOLDER(D) A71F0UH	1EM221535
B7	STAND BASE PLATE A71F0UH	1EM121808A
B8	STAND HINGE A71F0UH	1EM221532A
B16	CLOTH(12X125XT 0.5) L0101JB	0EM408489
B28	EARTH PLATE A71A0UH	1EM424585
B32	GRAND TAPE (TR-19) A71F0UH	1EM424512
B33	RUBBER CUSHION (10X10X13) A71F0UH	1EM424527
B41	CLOTH(15X10XT0.5) L9700UA	0EM405038
CL3007	WIRE ASSEMBLY 31PIN LVDS 31PIN / 110MM	WX1A71A0-110
CL7501	WIRE ASSEMBLY 101 24PIN / 475MM	WX1A71A0-101
CLN101	WIRE ASSEMBLY 003 8PIN / 360MM / AWG26	WX1A71A0-003
CLN102	WIRE ASSEMBLY 002 6PIN / 780MM / AWG26	WX1A71A0-002
CLN801	WIRE ASSEMBLY 006 2PIN / 420MM / AWG22	WX1A71A0-006
CLN802	WIRE ASSEMBLY 005 2PIN / 250MM / AWG22	WX1A71A0-005
L1	SCREW P-TIGHT 4X14 BIND HEAD	GBJP4140
L3	SCREW P-TIGHT M3X12 DISH HEAD+	GDJP3120
L4	SCREW P-TIGHT 3X10 BIND HEAD+	GBJP3100
L7	SCREW B-TIGHT 3X10 BIND HEAD+ BLK	GBHB3100
L9	SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L11	DOUBLE SEMS SCREW M4X6 M4X6	FPJ34060
L12	DOUBLE SEMS SCREW M4X9 + BLACK L0130UA	0EM408146A
L13	DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
L15	NUT 3/8-32UNEF	0EM401451A
L16	ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392
L18	SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L19	HEX SCREW #4-40 7MM	1EM422042
L21	SCREW P-TIGHT M4X18 BIND HEAD+	GBHP4180
LCD1	LCD 26V TFT V260B1-L01	TLCD100CME14
SP801	SPEAKER MAGNETIC YDP613-1FN	DSD0811EFU01
SP802	SPEAKER MAGNETIC YDP613-1FN	DSD0811EFU01

Ref. No.	Description	Part No.
	PACKING	
S1	CARTON A71A0UH	1EM322543
S2	STYROFOAM TOP A71A0UH	1EM021686
S3	STYROFOAM BOTTOM A71A0UH	1EM021685
S4	SET BAG L4300UA	1EM321546
S5	SERIAL NO. LABEL L9750UA	---------
S6	STAND SHEET L5001CB	1EM423856
	ACCESSORIES	
X1	BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2⚠	OWNERS MANUAL A71A0UH	1EMN22136
X3	REMOTE CONTROL NF015UD 170/ ECNLC501/NF015UD	NF015UD
X4	DRY BATTERY(SUNRISE) R6SSE/2S	XB0M451MS002
X9	QUICK SETUP GUIDE A71F0UH	1EMN22176

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%

G.....±2% J.....±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	1ESA14541

MPS CBA

Ref. No.	Description	Part No.
	MPS CBA Consists of the following	1ESA14544
	POWER SUPPLY CBA(MPS-1) FUNCTION CBA(MPS-2) IR SENSOR CBA(MPS-3) JACK CBA(MPS-4)	---------- ---------- ---------- ----------

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA(MPS-1) Consists of the following:	----------
	CAPACITORS	
C601⚠	ALMINIUM ELECTROLYTIC CAP 150µF/200V	CA2D151NC236
C602	CERAMIC CAP. R K 680pF/2KV(HR)	CCD3DKA0R681
C604	POLYESTER FILM CAP. (PB FREE) 0.033µF/ 100V J	CA2A333DT018
C605	CERAMIC CAP.(AX) B K 0.01µF/50V	CA1J103TU011
C606	FILM CAP.(P) 0.1µF/50V J	CMA1JJS00104
C633	ELECTROLYTIC CAP. 470µF/25V M	CE1EMASDL471
C634	ELECTROLYTIC CAP 3300µF/10V	CE1AMZNDL332
C635	CERAMIC CAP.(AX) B K 0.01µF/50V	CA1J103TU011
C636	CERAMIC CAP. R K 1500pF/2KV(HR)	CCD3DKA0R152
C638	ELECTROLYTIC CAP 3300µF/10V	CE1AMZNDL332
C639	ELECTROLYTIC CAP. 220µF/50V M	CE1JMASDL221
C640	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C642	CAP ELE STD-85 4700µF 6.3V SL	CE0KMZNDL472
C644	ELECTROLYTIC CAP. 4700µF/10V M P=7.5	CE1AMZNDL472
C647	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C648	ELECTROLYTIC CAP. 1000µF/25V M	CE1EMZNDL102
C650	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL1R0
C652	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C653	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C655	ELECTROLYTIC CAP. 1000µF/10V M	CE1AMASDL102
C656	CAP ELE STD-85 4700µF 6.3V SL	CE0KMZNDL472
C657	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C658	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C659	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C660	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C661	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C662	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C663	ELECTROLYTIC CAP. 100µF/25V M	CE1EMASDL101
C664	CAP ELE STD-85 4700µF 6.3V SL	CE0KMZNDL472
C665	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C669	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C671	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C801	ELECTROLYTIC CAP. 100µF/16V M	CA1C101SP085
C802	CHIP CERAMIC CAP. (1608) B K 1µF/16V	CHD1CK30B105
C803	CHIP CERAMIC CAP. (1608) B K 1µF/16V	CHD1CK30B105
C804	ELECTROLYTIC CAP. 100µF/16V M	CA1C101SP085
C805	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C806	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C807	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C808	ELECTROLYTIC CAP. 3.3µF/50V M	CE1JMASDL3R3
C809	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C810	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C811	ELECTROLYTIC CAP. 1000µF/25V M	CE1EMZNDL102
C812	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C813	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C814	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C815	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C816	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C817	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C818	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C819	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL1R0
C821	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C823	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C824	CHIP CERAMIC CAP. (1608) B K 1µF/16V	CHD1CK30B105
C825	CHIP CERAMIC CAP. (1608) B K 1µF/16V	CHD1CK30B105
C826	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C827	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C833	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C834	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C835	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C842	CHIP CERAMIC CAP. (1608) B K 1µF/16V	CHD1CK30B105
C843	CHIP CERAMIC CAP. (1608) B K 1µF/16V	CHD1CK30B105
C851	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C857	ELECTROLYTIC CAP. 100µF/16V M	CA1C101SP085
C859	ELECTROLYTIC CAP. 47µF/25V M	CA1E470SP085
C860	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
C861	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
C862	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C863	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C864	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C865	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C866	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C867	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C868	CHIP CERAMIC CAP.(1608) B K 2700pF/50V	CHD1JK30B272
C869	CHIP CERAMIC CAP.(1608) B K 2700pF/50V	CHD1JK30B272
C870	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C871	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C872	CHIP CERAMIC CAP. B K 0.068µF/50V	CHD1JK30B683
C873	CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C875	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C876	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7

Ref. No.	Description	Part No.
C877	CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C878	CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C880	CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C1602	ALUMINUM ELECTROLYTIC CAP 1000μF/35V M	CE1GMZNTM102
C1603	CERAMIC CAP.(AX) B K 0.01μF/50V	CA1J103TU011
CONNECTORS		
CN101B	PH CONNECTOR TOP 8P B8B-PH-K-S (LF)(SN)	J3PHC08JG029
CN301	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN302	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN601	WIRE ASSEMBLY 004 3PIN / 160MM / AWG18	WX1A71A0-004
CN675	TERMINAL PRINTBORD PIN RT-01T-1.0B(LF)	JTEA001JG003
CN801	CONNECTOR BASE 2P(EH) B 2B-EH-A(LF)(SN)	J3EHC02JG010
CN802	CONNECTOR BASE 2P(EH) B 2B-EH-A(LF)(SN)	J3EHC02JG010
DIODES		
D602⚠	ZENER DIODE MTZJT-7739B	QDTB00MTZJ39
D603	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D604⚠	ZENER DIODE MTZJT-7727B	QDTB00MTZJ27
D606	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D607	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D611	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D612	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D613	PCB JUMPER D0.6-P5.0	JW5.0T
D631	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D632	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D633	RECTIFIER DIODE FR202-B/P	NDQZ000FR202
D635	ZENER DIODE MTZJT-7722B	QDTB00MTZJ22
D636	RECTIFIER DIODE FR202-B/P	NDQZ000FR202
D637	SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***
D640	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D642	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D643	ZENER DIODE MTZJT-775.1B	QDTB0MTZJ5R1
D644	DIODE 1ZC43(Q)	QDLZ001ZC43Q
D646	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D647	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D649	ZENER DIODE MTZJT-7733B	QDTB00MTZJ33
D650	ZENER DIODE MTZJT-776.2B	QDTB0MTZJ6R2
D651	DIODE FR104-B	NDLZ000FR104
D652	PCB JUMPER D0.6-P5.0	JW5.0T
D654	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D655	DIODE FR104-B	NDLZ000FR104
D656	PCB JUMPER D0.6-P5.0	JW5.0T
D657	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D658	ZENER DIODE MTZJT-775.1B	QDTB0MTZJ5R1
D659	ZENER DIODE MTZJT-7716B	QDTB00MTZJ16
D660	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D661	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D663	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D664	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D665	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D666	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D667	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D668	PCB JUMPER D0.6-P5.0	JW5.0T
D670	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D671	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D672	ZENER DIODE MTZJT-7716B	QDTB00MTZJ16
D674	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D675	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D676	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D677	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D801	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10

Ref. No.	Description	Part No.
D802	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D803	PCB JUMPER D0.6-P5.0	JW5.0T
D810	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D811	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D851	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D852	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1601	DIODE SCHOTTKY ERC84-009L	QD4ZERC84009
D1607	DIODE SCHOTTKY ERC84-009L	QD4ZERC84009
ICS		
IC603⚠	PHOTOCOUPLER LTV-817C-F	NPEC0LTV817F
IC637	IC LD1117V	NSZBA0SSS046
IC801	IC POWER AMP BD5422EFS-E2	QSZBA0TRM113
IC802	IC SURROUND PROCESSOR LV1115M-TLM-E MFP24S	QSZBA0TSY050
COILS		
L661	CHOKE COIL 22μH-K	LLBD00PKV021
L801	COIL RADIAL LHLP10NB330M 33μH	LLF3300TU003
L802	COIL RADIAL LHLP10NB330M 33μH	LLF3300TU003
L803	COIL RADIAL LHLP10NB330M 33μH	LLF3300TU003
L804	COIL RADIAL LHLP10NB330M 33μH	LLF3300TU003
L805	INDUCTOR 22μH-K-5FT	LLARKBSTU220
L852	PCB JUMPER D0.6-P5.0	JW5.0T
TRANSISTORS		
Q601⚠	FET MOS 2SK3563(Q)	QFWZ2SK3563Q
Q602⚠	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q631	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q632⚠	PNP TRANSISTOR POWER 2SA1887(F)	QQWZ2SA1887F
Q633	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q635	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q636	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q637	PNP TRANSISTOR POWER 2SA1887(F)	QQWZ2SA1887F
Q638⚠	TRANSISTOR(PB FREE) KTC2026-Y/P	NQEYKTC2026P
Q639	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q640	PNP TRANSISTOR POWER 2SA1887(F)	QQWZ2SA1887F
Q641	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q643	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q644	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q650	TRANSISTOR(PB FREE) KTC2026-Y/P	NQEYKTC2026P
Q651	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q652	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q801	TRANSISTOR(PB FREE) KTC2026-Y/P	NQEYKTC2026P
Q802	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
RESISTORS		
R139	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R140	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R601⚠	METAL RES. 3W J 0.33 Ω	RN03JZPZ0R33
R604	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R605	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R606	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R607	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R608	PCB JUMPER D0.6-P5.0	JW5.0T
R609	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R610	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R611	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R612	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R613	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R615	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R616	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R617	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R618	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R619	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R620	METAL OXIDE FILM RES. 2W J 1 Ω	RN021R0DP004
R621	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103

Ref. No.	Description	Part No.
R622	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R633	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R634	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R635	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R636	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R639	CHIP RES. 1/10W J 2.7k Ω	RRXAJR5Z0272
R641	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R642	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R644	PCB JUMPER D0.6-P5.0	JW5.0T
R645	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R646	CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R649	METAL OXIDE FILM RES. 1W J 1k Ω	RN01102ZU001
R650	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R651	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R652	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R653	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R654	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R655	CHIP RES. 1/10W F 1.0k Ω	RRXAFR5H1001
R656	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R657	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R658	CHIP RES. 1/10W F 620 Ω	RRXAFR5H6200
R659	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R660	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R661	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R662	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R663	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R664	CHIP RES. 1/10W F 39k Ω	RRXAFR5H3902
R665	CHIP RES. 1/10W J 2.7k Ω	RRXAJR5Z0272
R666	CHIP RES. 1/10W F 6.8k Ω	RRXAFR5Z6801
R668	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R669	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R670	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R671	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R672	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R673	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R676	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R677	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R678	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R679	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R680	CHIP RES. 1/10W J 1.8k Ω	RRXAJR5Z0182
R681	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R682	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R683	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R684	CHIP RES. 1/10W J 56k Ω	RRXAJR5Z0563
R685	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R687	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R688	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R689	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R690	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R691	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R692	CARBON RES. 1/4W J 33k Ω	RCX4JATZ0333
R693	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R694	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R695	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R696	CHIP RES. 1/10W J 56k Ω	RRXAJR5Z0563
R697	CHIP RES. 1/10W F 8.2k Ω	RRXAFR5H8201
R800	PCB JUMPER D0.6-P12.5	JW12.5T
R801	CHIP RES. 1/10W F 100k Ω	RRXAFR5H1003
R802	CHIP RES. 1/10W J 390k Ω	RRXAJR5Z0394
R803	CARBON RES. 1/4W J 10 Ω	RCX4JATZ0100
R804	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R805	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R806	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R807	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R808	CHIP RES. 1/10W F 16.0 k Ω	RRXAFR5H1602
R809	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R810	CHIP RES. 1/10W F 16.0 k Ω	RRXAFR5H1602
R812	CHIP RES. 1/10W J 270k Ω	RRXAJR5Z0274
R813	CHIP RES. 1/10W F 100k Ω	RRXAFR5H1003
R814	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R815	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R816	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R817	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R819	CHIP RES. 1/10W J 2.7k Ω	RRXAJR5Z0272
R820	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R854	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R855	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R856	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R859	CHIP RES. 1/10W J 10 Ω	RRXAJR5Z0100
R860	CHIP RES. 1/10W J 5.1k Ω	RRXAJR5Z0512
R863	CHIP RES. 1/10W J 3.6k Ω	RRXAJR5Z0362
R864	CHIP RES. 1/10W J 3.6k Ω	RRXAJR5Z0362
R865	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R866	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R869	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R870	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
	MISCELLANEOUS	
B10	HEAT SINK PKH ASSEMBLY L3201UB	1EM420648
B11	HEAT SINK PKP ASSEMBLY L4200EA	1EM420855
BC601	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC602	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC632	PCB JUMPER D0.6-P5.0	JW5.0T
BC633	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC634	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC635	PCB JUMPER D0.6-P5.0	JW5.0T
BC1602	PCB JUMPER D0.6-P5.0	JW5.0T
JS611	PCB JUMPER D0.6-P5.0	JW5.0T
JS631	PCB JUMPER D0.6-P15.0	JW15.0T
JS632	PCB JUMPER D0.6-P15.0	JW15.0T
JS641	PCB JUMPER D0.6-P5.0	JW5.0T
JS642	PCB JUMPER D0.6-P5.0	JW5.0T
JS802	PCB JUMPER D0.6-P5.0	JW5.0T
JS803	PCB JUMPER D0.6-P5.0	JW5.0T
JS1601	PCB JUMPER D0.6-P12.5	JW12.5T
L6	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
T601⚠	TRANS POWER 7711	LTT3PC0KT025

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA(MPS-2) Consists of the following:	---------
	CAPACITOR	
C108	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
	CONNECTOR	
CN102	CONNECTOR PRINT OSU S6B-PH-K-S(LF)(SN)	J3PHC06JG030
	DIODE	
D108	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
	RESISTORS	
R118	PCB JUMPER D0.6-P5.0	JW5.0T
R119	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R120	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R121	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R122	CHIP RES. 1/10W J 2.7k Ω	RRXAJR5Z0272
R123	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222

Ref. No.	Description	Part No.
R124	CHIP RES. 1/10W J 1.5k Ω	RRXAJR5Z0152
R125	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R126	CHIP RES. 1/10W J 1.5k Ω	RRXAJR5Z0152
	SWITCHES	
SW108	TACT SWITCH SKQSAB	SST0101AL038
SW109	TACT SWITCH SKQSAB	SST0101AL038
SW110	TACT SWITCH SKQSAB	SST0101AL038
SW111	TACT SWITCH SKQSAB	SST0101AL038
SW112	TACT SWITCH SKQSAB	SST0101AL038
SW113	TACT SWITCH SKQSAB	SST0101AL038
SW114	TACT SWITCH SKQSAB	SST0101AL038
	MISCELLANEOUS	
BC102	PCB JUMPER D0.6-P5.0	JW5.0T
JS101	PCB JUMPER D0.6-P5.0	JW5.0T
JS103	PCB JUMPER D0.6-P5.0	JW5.0T

IR SENSOR CBA

Ref. No.	Description	Part No.
	IR SENSOR CBA(MPS-3) Consists of the following:	----------
	CAPACITORS	
C101	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C102	CHIP CERAMIC CAP. F Z 0.01μF/50V	CHD1JZ30F103
C105	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C106	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C107	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
	CONNECTOR	
CN001	PH CONNECTOR SIDE 8P S8B-PH-K-S(LF)(SN)	J3PHC08JG030
	DIODES	
D101	LED 333HT/E-K	NPHK00333HTE
D102	LED 333GT/E	NPHZ00333GTE
	RESISTORS	
R101	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R102	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R103	CHIP RES. 1/10W J 220 Ω	RRXAJR5Z0221
R104	CHIP RES. 1/10W J 220 Ω	RRXAJR5Z0221
R105	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
	MISCELLANEOUS	
BC101	PCB JUMPER D0.6-P5.0	JW5.0T
RCV891	PHOTO LINK MODULE KSM-712TH2E	USESJRSKK044

JACK CBA

Ref. No.	Description	Part No.
	JACK CBA(MPS-4) Consists of the following:	----------
	CAPACITORS	
C7001	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C7002	CHIP CERAMIC CAP.(2125) F Z 10μF/10V	CHE1AZ30F106
C7003	CHIP CERAMIC CAP.(2125) F Z 10μF/10V	CHE1AZ30F106
C7004	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7005	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7006	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7007	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7008	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C7009	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C7010	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C7012	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C7013	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C7101	ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C7102	CERAMIC CAP.(AX) B K 1000pF/50V	CCA1JKT0B102
C7109	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7110	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7111	ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C7515	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7516	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7602	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7605	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7608	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7611	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7615	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7618	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7621	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7624	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	CHE1CZ30F475
C7701	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C7702	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7705	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C7706	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7709	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C7710	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7714	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C7715	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C7718	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C7719	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7723	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C7724	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C7729	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C7730	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7733	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C7734	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7738	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C7739	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7743	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C7744	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7747	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C7748	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7751	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C7752	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C7801	ELECTROLYTIC CAP. 100μF/16V M H7	CE1CMAVSL101
C7802	ELECTROLYTIC CAP. 100μF/16V M H7	CE1CMAVSL101
	CONNECTOR	
CN7501	FMN CONNECTOR TOP 24P 24FMN-BTK-A(LF)(SN)	JCFNG24JG019
	IC	
IC7001	IC VIDEO ANALOG INTERFACE R2A11011FP QFP 56PIN	QSZBA0RHT066
	COILS	
L7802	PCB JUMPER D0.6-P5.0	JW5.0T
L7803	PCB JUMPER D0.6-P5.0	JW5.0T
	RESISTORS	
R7001	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R7002	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R7101	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7102	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7103	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7104	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7105	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R7106	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R7111	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7112	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7502	PCB JUMPER D0.6-P5.0	JW5.0T
R7503	PCB JUMPER D0.6-P5.0	JW5.0T
R7504	PCB JUMPER D0.6-P5.0	JW5.0T
R7515	CHIP RES. 1/10W J 18k Ω	RRXAJR5Z0183

Ref. No.	Description	Part No.
R7516	CHIP RES. 1/10W J 18k Ω	RRXAJR5Z0183
R7517	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R7518	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R7601	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7602	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7604	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7605	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7607	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7608	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7610	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7611	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7613	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7614	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7616	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7617	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7619	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7620	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7622	CHIP RES. 1/10W J 43k Ω	RRXAJR5Z0433
R7623	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R7701	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7702	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7708	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7709	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7715	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7716	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7723	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7724	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7730	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7731	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7738	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R7739	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7747	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R7748	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7755	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R7756	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7763	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R7764	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7771	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R7772	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7779	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R7780	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R7787	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R7788	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
	MISCELLANEOUS	
JK7501	JACK HPEP SML PCB S PJ-358H	JXSJ020YUQ01
JK7701	JACK SW DIN PCB S YKF51-5379V	JYEJ040JC002
JK7702	JACK SW RCA PCB S RCA-347HDT-02	JYRJ030YUQ01
JK7705	JACK SW DIN PCB L DIN-435C	JYEL040YUQ02
JK7706	JACK SW RCA PCB L 05 RCA-340NI-01	JYRL030YUQ14
JK7711	JACK RCA PCB S 03 RCA-347HT-03	JXRJ030YUQ01
JK7712	JACK SW RCA PCB S RCA-228H(2)NI-01	JYRJ020YUQ02
JK7713	JACK RCA PCB S 03 RCA-347HT-03	JXRJ030YUQ01
JK7714	JACK SW RCA PCB S RCA-228H(2)NI-01	JYRJ020YUQ02

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	1ESA14547
	CAPACITORS	
C502	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
C503⚠	SAFETY CAP. E M 1000pF/250V	CCG2EMP0E102
C504⚠	METALIZED FILM CAP. 0.47μF/250V	CT2E474MS037
C505⚠	METALIZED FILM CAP. 0.47μF/250V	CT2E474MS037
C506	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
C507⚠	SAFETY CAP. E M 1000pF/250V	CCG2EMP0E102
C509⚠	ALUMINUM ELECTROLYTIC CAP 470μF/200V M	CA2D471NC190
C510	FILM CAP.(P) 0.022μF/50V J	CMA1JJS00223
C511	CERAMIC CAP.(AX) B J 390pF/50V	CCA1JJT0B391
C512	CERAMIC CAP.(AX) B J 100pF/50V	CCA1JJT0B101
C513	CERAMIC CAP.(AX) F Z 0.1μF/50V	CCA1JZTFZ104
C514	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C515	PCB JUMPER D0.6-P5.0	JW5.0T
C516	P.P. CAPACITOR 0.022μF/630V J	CBP2KKD00223
C517	CERAMIC CAP. BN 560pF/2KV	CCD3DKA0B561
C519⚠	SAFETY CAP. E M 1000pF/250V	CCG2EMP0E102
C520	FILM CAP.(P) 0.022μF/50V J	CMA1JJS00223
C521	CERAMIC CAP.(AX) B K 0.01μF/50V	CA1J103TU011
C551	CERAMIC CAP.(AX) F Z 0.01μF/25V	CCA1EZTFZ103
C555	CERAMIC CAP. B K 1000pF/500V	CCD2JKS0B102
C556	FILM CAP.(P) 0.01μF/50V J	CMA1JJS00103
C558⚠	CAP ELE STD-85 4700μF/35V SL	CE1GMZNDL472
C560	ELECTROLYTIC CAP. 0.1μF/50V M	CE1JMASDL0R1
C561	CAP ELE STD-85 4700μF/35V SL	CE1GMZNDL472
	CONNECTORS	
CN501	CONNECTOR B2P3-VH(LF)(SN)	J3VH020JG001
CN553	WIRE ASSEMBLY 14PIN / 120MM / AWG	WX1A71A0-007
	DIODES	
D502⚠	DIODE 1N5406	NDLZ001N5406
D503⚠	DIODE 1N5406	NDLZ001N5406
D504⚠	DIODE 1N5406	NDLZ001N5406
D505⚠	DIODE 1N5406	NDLZ001N5406
D507	DIODE 1ZC30(Q)	QDLZ001ZC30Q
D509	DIODE FR154	NDLZ000FR154
D510	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D511	FAST RECOVERY DIODE CA201-4	QDWZ00CA2014
D512	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D513	ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D514	DIODE 1ZC33(Q)	QDLZ001ZC33Q
D552⚠	SCHOTTKY BARRIER DIODE ERC84-009	QDLZERC84009
D553⚠	SCHOTTKY BARRIER DIODE ERC84-009	QDLZERC84009
D554	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D555⚠	SCHOTTKY BARRIER DIODE ERC84-009	QDLZERC84009
D556	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D557	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D558⚠	SCHOTTKY BARRIER DIODE ERC84-009	QDLZERC84009
D559	DIODE 1ZC30(Q)	QDLZ001ZC30Q
D560	ZENER DIODE MTZJT-7727B	QDTB00MTZJ27
D563	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D564	ZENER DIODE MTZJT-775.1B	QDTB0MTZJ5R1
	ICS	
IC501	IC UCC28600DR SOIC 8PIN	NSZAA0TTY017
IC509⚠	PHOTOCOUPLER LTV-817B-F	NPEB0LTV817F
IC510⚠	PHOTOCOUPLER LTV-817B-F	NPEB0LTV817F
	COILS	
L502⚠	LINE FILTER MS036	LLBG00ZY2009
L503⚠	LINE FILTER MS036	LLBG00ZY2009
	TRANSISTORS	
Q501⚠	FET MOS 2SK3561(Q) IDSS100UA	QFWZ2SK3561Q
Q502	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q503	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q551	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q552	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q553	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P

Ref. No.	Description	Part No.
Q554	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q555	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
	RESISTORS	
R501⚠	CEMENT RESISTOR 5W J 0.47 Ω	RW05R47PAK10
R503⚠	CARBON RES. 1/2W J 3.3M Ω	RCX2335DP001
R505⚠	METAL OXIDE FILM RES. 2W J 0.2 Ω	RN02R20ZU001
R506	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R507	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R509	PCB JUMPER D0.6-P5.0	JW5.0T
R510⚠	CARBON RES. 1/4W J 120k Ω	RCX4JATZ0124
R511	CARBON RES. 1/4W J 120k Ω	RCX4JATZ0124
R512	CARBON RES. 1/4W J 120k Ω	RCX4JATZ0124
R513	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R514	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R515	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R516	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R517⚠	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R518	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R519	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R521	CARBON RES. 1/4W J 330k Ω	RCX4JATZ0334
R522	METAL RESISTOR 2W J 18k Ω	RN02183ZU001
R523	PCB JUMPER D0.6-P5.0	JW5.0T
R524	METAL RESISTOR 2W J 18k Ω	RN02183ZU001
R525	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R526	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R527	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R528	PCB JUMPER D0.6-P5.0	JW5.0T
R530	PCB JUMPER D0.6-P5.0	JW5.0T
R535	PCB JUMPER D0.6-P5.0	JW5.0T
R551	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R553	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R554	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R555	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R556	PCB JUMPER D0.6-P5.0	JW5.0T
R557	CARBON RES. 1/4W G 2.2k Ω	RCX4GATZ0222
R558	CARBON RES. 1/4W G 6.8k Ω	RCX4GATZ0682
R559	CARBON RES. 1/4W G 6.8k Ω	RCX4GATZ0682
R560	CARBON RES. 1/4W G 5.6k Ω	RCX4GATZ0562
R561	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R562	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R563	CARBON RES. 1/4W J 240k Ω	RCX4JATZ0244
R564	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R565	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R566	METAL OXIDE FILM RES. 2W J 1.5k Ω	RN02152DP004
R567	METAL OXIDE FILM RES. 2W J 1.5k Ω	RN02152DP004
R568	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R571	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R572	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R573	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R574	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R575	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R576	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
	MISCELLANEOUS	
AC501⚠	AC CORD UL 1855MM BLACK	WAC0182LW007
B40	HEAT SINK PMN ASSEMBLY A71A0UH	1EM424514
BC501	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC502	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC552	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC553	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
CL552A	WIRE ASSEMBLY 001 8PIN / 90MM / AWG26	WX1A71A0-001
F501⚠	FUSE STC4A125V U/CT	PAGE20CW3402
FH501	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FC501	CORE FERRITE TOROIDAL HF40T18X10X10	XL04018TE001
FH502	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
GP501⚠	GAP. FNR-G3.10D	FAZ000LD6005
JS501	PCB JUMPER D0.6-P10.0	JW10.0T
JS504	PCB JUMPER D0.6-P5.0	JW5.0T
JS506	PCB JUMPER D0.6-P5.0	JW5.0T
JS553	PCB JUMPER D0.6-P10.0	JW10.0T
JS554	PCB JUMPER D0.6-P10.0	JW10.0T
L6	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA502⚠	SURGE ABSORBER 470V+-10PER	NVQZ10D471KB
T501⚠	TRANS POWER 7728	LTT3PC0KT032

DIGITAL SUB CBA

Ref. No.	Description	Part No.
	DIGITAL SUB CBA Consists of the following:	1ESA14901
	CONNECTOR	
CN1	ANGLE PIN HEADER IMSA6029B105Z003PT1	JTED005ER045
	TRANSISTORS	
Q1	TRANSISTOR 2SA1931(Q)	QQZZ2SA1931Q
Q2	TRANSISTOR 2SA1931(Q)	QQZZ2SA1931Q
Q3	TRANSISTOR 2SA1931(Q)	QQZZ2SA1931Q
	RESISTORS	
R1	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R3	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R4	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R5	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
	MISCELLANEOUS	
A	WIRE ASSEMBLY 301 1PIN/100MM/AWG20/ YEL	WX1A71F0-301
B	LEAD WIRE 1P 60MM 1P/60MM/AWG20/RED	WX3201DAFF06
C	LEAD WIRE 1P 50MM 1P/50MM/AWG20/ ORANGE	WX3301DAFF05
D	LEAD WIRE 1P 50MM 1P/50MM/AWG20/ ORANGE	WX3301DAFF05

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